



# **STIC Search Report**

## **EIC 3600**

**STIC Database Tracking Number: 121493**

**TO: Eric Shaffer**  
**Location: 7B03**  
**Art Unit : 3623**  
**Monday, May 17, 2004**

**Case Serial Number: 09/550706**

**From: Sylvia Keys**  
**Location: EIC 3600**  
**PK5-Suite 804**  
**Phone: 305-5782**

**[sylvia.keys@uspto.gov](mailto:sylvia.keys@uspto.gov)**

### **Search Notes**

Dear Examiner Shaffer,

Please read through the results.

If you have any questions, please do not hesitate to contact me.

Sylvia



121493

# STIC EIC 3600

## Search Request Form

Today's Date

Priority Date:

For 705 Searches list subclass

Apr. 17, 2000

3,10

Your Name Shaffer

Is this a Rush? YES ☒ NO  
SPE's Signature

AU 3623

Examiner # 74394

Is this a first action amendment? YES ☒ NO

Room # 7B03

Phone 705-5283

Is this a refocus? YES ☒ NO

Serial # 09/550706

Access #

What is the focus of this search? Please include concepts, synonyms etc.

Attach a copy of the abstract, pertinent claims and your East search strategy. Thanks.

Appointment schedule between user and  
service provider

Receive request

Determine availability

Set appointment

Transmit on-line

SIT Scanner  
Date printed

Date completed



File 348:EUROPEAN PATENTS 1978-2004/May W01

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040513,UT=20040506

(c) 2004 WIPO/Univentio

? ds

Set	Items	Description
S1	1295	(ONLINE OR ON())LINE OR AUTOMATE? OR COMPUTERI? OR ELECTRON-IC?) (5N) (SCHEDULER? OR SCHEDULING? OR CALENDAR? OR APPOINTMENT?)
S2	41798	SERVICE() PROVIDER? OR WEBHOST? OR WEB()HOST? OR ISP OR INTERNET()SERVICE() PROVIDER? OR PROVIDER OR PROVIDERS
S3	48937	(RECEIVE? ? OR RECEIVING OR TRANSMIT? OR TRANSMIS? OR SEND? ? OR SENDING) (5N) REQUEST? ?
S4	12545	(TRANSMIT? OR TRANSMIS? OR SEND? ?OR SENDING) (5N) (VERIF? OR CONFIRM? OR ACKNOWLEDG?)
S5	63333	(TRANSMIT? OR TRANSMIS? OR SEND? ? OR SENDING) (5N) (TIME OR TIMES OR DATE OR DATES)
S6	122439	(DETERMIN? OR ASSESS?) (5N) (AVAILABLE? OR AVAILABILITY OR TIME OR TIMES OR DATE OR DATES OR APPOINTMENT?)
S7	81	AU=(TAM, T? OR TAM T? OR MOK, R? OR MOK R? OR LUK, S? OR L-UK S?)
S8	79	S1(S)S2
S9	20	S8(S) (S3 OR S4 OR S5 OR S6)
S10	14	S9 AND IC=G06F
S11	22	S1(5N) (S3 OR S4 OR S5 OR S6)
S12	19	S11 NOT S10
S13	10	S12 AND IC=G06F
S14	0	S7(S)S1
?		
?		

Search Performed by Sylvia Keys 17-May-04

10/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01013235 \*\*Image available\*\*

**SYSTEM AND METHOD FOR PROVIDING FOR OUT-OF-HOME ADVERTISING UTILIZING A SATELLITE NETWORK**

**SYSTEME ET PROCEDE DE DISTRIBUTION DE PUBLICITE EN DEHORS DU LIEU D'HABITATION, AU MOYEN D'UN RESEAU DE SATELLITES**

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200343204 A2-A3 20030522 (WO 0343204)

Application: WO 2002US33391 20021017 (PCT/WO US02033391)

Priority Application: US 2001330224 20011017; US 2001341626 20011217; US  
2002265512 20021003

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO

RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 52184

Main International Patent Class: G06F-017/60

Fulltext Availability:

Claims

Claim

... purchase display to the business enterprise; and selling a  
subscription for services provided by a **service provider** to the  
business enterprise for utilizing the at least one visual appliance to  
display content...221. The point-of-purchase display according to claim  
220, wherein the per volume over **time** duration basis is **determined** on  
a megabytes per month basis. 222. A method for billing advertisers of a  
subscriber...

...dynamic, electronic

advertising system, said method comprising:

establishing a subscription by a subscriber with a **service provider**  
to provide advertising services utilizing a communication service for  
communication of content to be displayed...utilizing a communications  
system, said system  
comprising:



a subscriber server operable to communicate with a **service provider** server to schedule content to be distributed for a distribution fee on the electronic advertising...

...operating in the subscriber server and operable (i) to receive the distribution fee from the **service provider** server for the content being distributed, (ii) to form a bill including the distribution fee... media organization. 241. The method according to claim 238, wherein said providing of the content **scheduling** services includes providing an **on-line** location operable for the subscriber to schedule the content to be displayed at a certain...253. The method according to claim 250, further comprising receiving the subscription fees from a **service provider** collecting subscription fees from the business enterprise utilizing the infrastructure. 254. The method according to...least two storage units operated by different business enterprises and located in distinct facilities;  
a **service provider** server in selective communication with the storage units, said **service provider** server operable to manage digital data for the different business enterprises; and software executed by said **service provider** server and operable to store the digital data to any of said at least two...

10/3,K/2 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00970386

**METHOD AND APPARATUS FOR BUNDLING TRANSMISSION RIGHTS AND ENERGY FOR TRADING**

**PROCEDE ET APPAREIL POUR LA COMPILATION DE DROITS DE TRANSMISSION ET SUR DE PRODUITS ENERGETIQUES POUR DES TRANSACTIONS COMMERCIALES**

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 2002103465 A2-A3 20021227 (WO 02103465)

Application: WO 2002US15719 20020515 (PCT/WO US2002015719)

Priority Application: US 2001291218 20010515; US 2001932694 20010816; US  
2002146511 20020514

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK

DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ

TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 73457

Main International Patent Class: **G06F-017/60**

Fulltext Availability:

Detailed Description

Search Performed by Sylvia Keys 17-May-04

# Detailed Description

... transmission rights

bundles to efficiently fulfill participant bids.

Participants enter bids for complete energy and **transmission** rights bundles that they wish to buy and offers for the complete bundles that they...

...for ways to disassemble the bundles that participants wish to sell into their component elements ( **transmission** rights and energy) and reassembles them into bundles that participants wish to buy. Any time... The invention provides a participant with a ex ante quote for any point-to-point **transmission** right at any **time** . An optimization system calculates this quote based on the standing bids and offers for other... depicts a refinement of a market interval as depicted in Figure 3B further containing multiple **time** intervals; Figure 3D depicts a macro market interval 1500 for a fungible, ephemeral commodity from...depicts a view of certified client user interface 7300 showing an ordering screen for hourly **time** interval based market intervals with respect to a specific facility ("Hyatt Generation") including energy transmission...view of the monthly invoice for the certified client including fees to the transaction engine **service provider** , who may be a first party, (APX Fees 7802); Figure 19 depicts a detail flowchart...to the algorithm currently used by PJM to auction FTRs.

Thus, once a new **transmission provider** is **acknowledged** by the RTO, it would enter the revenue process at the RTO auction by becoming...

10/3,K/3 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00968436

## HEALTHCARE SOLUTION SYSTEM

### SYSTEME DE SOINS DE SANTE PAR L'INTERNET

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Patent and Priority Information (Country, Number, Date):

Patent: WO 2002101622 A1 20021219 (WO 02101622)  
Application: WO 2001US18760 20010611 (PCT/WO US0118760)  
Priority Application: WO 2001US18760 20010611

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD  
SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 11166

Main International Patent Class: G06F-017/60

International Patent Class: G06F-017/30 ...

... G06F-015/18

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... Upon request by a customer via the user interface for an appointment with a specific **service provider**, the table is used to **determine** if an automatic **appointment** can be made.

3. The **electronic** interface sends the customer a first response if an automatic appointment can be made, and...customer's requested service provider.

The table further includes one or more conditions for selected **service providers** which define when the **electronic scheduling** system of the respective **service provider** is available for automatic scheduling of **appointments**. These conditions are used to **determine** from the table if an automatic appointment can be made. The conditions may include type...

...date of the request, and time of day of the request. For example, a first **provider** may wish to allow patients to automatically schedule annual gynecology appointments, but may not wish to allow patients to automatically schedule non-emergency office visits. A second **provider** may wish ...module of MyDoc Online allows each medical provider to customize the response text ["You will **receive** a response to your appointment **request** by <response communication method> within <response time parameter>."]. In one preferred embodiment of the present invention, the customized data for each **provider** is stored in a table. However, in an alternative embodiment, the customized data may be...

Claim

... scheduling of appointments;

(b) upon request by a customer via the user interface for an **appointment** with a specific **service provider**, **determining** from the table if an automatic appointment can be made; and

(c) the electronic interface sending the customer a first response if an automatic **appointment** can be made, and the **electronic** interface sending the customer a second response if an automatic appointment cannot be made.

2...

10/3,K/4 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00911764

SYSTEMS AND METHODS FOR DETECTION ASSAY ORDERING, DESIGN, PRODUCTION,  
INVENTORY, SALES AND ANALYSIS FOR USE WITH OR IN A PRODUCTION FACILITY  
SYSTEMES ET PROCEDES DE COMMANDE, DE CONCEPTION, DE PRODUCTION,  
D'INVENTAIRE, DE VENTE ET D'ANALYSE DE DOSAGES DE DETECTION, POUVANT  
ETRE UTILISES AVEC OU DANS UN MOYEN DE PRODUCTION

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200244994 A2 20020606 (WO 0244994)

Application: WO 2001US45705 20011130 (PCT/WO US0145705)

Search Performed by Sylvia Keys 17-May-04

Priority Application: US 2000250112 20001130; US 2000250449 20001130; US  
2001771332 20010126; US 2001782702 20010213; US 2001285895 20010423; US  
2001288229 20010502; US 2001289764 20010509; US 2001304521 20010711; US  
2001307660 20010725; US 2001915063 20010725; US 2001308878 20010731; US  
2001311582 20010810; US 2001929135 20010814; US 2001930535 20010815; US  
2001930688 20010815; US 2001930646 20010815; US 2001930543 20010815; US  
2001326549 20011002; US 2001238312 20011010; US 2001329113 20011012; US  
2001328861 20011012; US 2001360489 20011019; US 20012251 20011026; US  
200154023 20011113

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU  
SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

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Fulltext Word Count: 140672

Main International Patent Class: **G06F-019/00**

Fulltext Availability:

Detailed Description

Detailed Description

... regular basis to ensure that they are receiving information and  
processing information on a desired **time** scale. If a sub node is found  
to not be functioning properly, the central node...enhancer for  
RepeatMasker. Execution profiling of native RepeatMasker showed that the  
vast majority of its **time** was spent running Cross-Match. Mask.erAid  
allows the faster WU-BLAST search engine to...what the primer  
concentration should be obtained to get the signals closer within the  
same **time** point. These detection assays can be on an array of different  
sizes (384 well plates...

**10/3,K/5 (Item 5 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00868237 \*\*Image available\*\*

**PATIENT HEALTH RECORD ACCESS SYSTEM**

**SYSTEME D'ACCES AU X DOSSIERS DE SANTE DES PATIENTS**

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ZOU Baiming, 308L Eagle Heights, Madison, WI 53705, US,

RANA Sumit S, 6702 Schroeder Road, #23, Madison, WI 53711, US,

Legal Representative:

SITKO Anthony G (agent), Marshall, O'Toole, Gerstein, Murray & Borun,

Search Performed by Sylvia Keys 17-May-04

6300 Sears Tower, 233 South Wacker Drive, Chicago, IL 60606, US,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200201483 A2-A3 20020103 (WO 0201483)  
Application: WO 2001US20357 20010626 (PCT/WO US0120357)  
Priority Application: US 2000214290 20000626; US 2001263651 20010123; US  
2001821615 20010329; US 2001829292 20010409  
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD  
SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 11100

Main International Patent Class: **G06F-019/00**  
Fulltext Availability:  
Claims

Claim

... of an information flag.

45 A method of self-scheduling appointments between service recipients  
and **service providers** via an electronic network, the method  
comprising the steps of receiving via the **electronic** network an  
**appointment scheduling** request from a  
service recipient;  
determining an authorization of the service recipient to submit the...

...in accordance with  
the appointment scheduling information; and  
applying a set of rules to the **appointment** request (inverted  
exclamation mark) to **determine** if the requested **appointment** is allowed.

46 The method of claim 45, wherein the set of rules comprises a...

**10/3,K/6 (Item 6 from file: 349)**  
DIALOG(R) File 349: PCT FULLTEXT  
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00814140

**A METHOD FOR A VIRTUAL TRADE FINANCIAL FRAMEWORK**  
**PROCEDE DESTINE A UN SCHEMA FINANCIER DE COMMERCE VIRTUEL**

Patent Applicant/Assignee:

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2029 Century Park East, Los Angeles, CA 90067-3024, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200146846 A2 20010628 (WO 0146846)  
Application: WO 2000US35429 20001222 (PCT/WO US0035429)

Priority Application: US 99470030 19991222; US 99470041 19991222; US  
99470044 19991222

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES  
FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD  
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ  
VN YU ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 106212

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... of the eCommerce process with the

back-office systems of the trading partners and users

**Electronic** medium infrastructure carrying digital information from  
one entity to the  
other

Security combination of technologies...

...and regulations to create a suitable and stable frame of reference is  
required to stimulate **electronic** transactions - 16 Navigation  
services that help users to be informed and guided towards the various...  
custom generation tool or purchase an existing one? The decision to custom  
build or to buy **available** case tools must be **determined** by the  
development team. Most generators are usually custom built because often  
the technical environment...

10/3,K/7 (Item 7 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00806392

TECHNOLOGY SHARING DURING ASSET MANAGEMENT AND ASSET TRACKING IN A  
NETWORK-BASED SUPPLY CHAIN ENVIRONMENT AND METHOD THEREOF  
PARTAGE TECHNOLOGIQUE LORS DE LA GESTION ET DU SUIVI DU PARC INFORMATIQUE  
DANS UN ENVIRONNEMENT DU TYPE CHAÎNE D'APPROVISIONNEMENT RÉSEAUTÉE, ET  
PROCÉDÉ ASSOCIÉ

Patent Applicant/Assignee:

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Inventor(s):

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Legal Representative:

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2029 Century Park East, Los Angeles, CA 90067-3024, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200139086 A2 20010531 (WO 0139086)

Application: WO 2000US32310 20001122 (PCT/WO US0032310)

Priority Application: US 99444653 19991122; US 99447623 19991122

Designated States: AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL

Search Performed by Sylvia Keys 17-May-04

TJ TM TR TT TZ UA UG UZ VN YU ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English  
Filing Language: English  
Fulltext Word Count: 156214

Main International Patent Class: G06F-017/60

Fulltext Availability:  
Detailed Description

Detailed Description

... is to ensure quality of service (QOS) and produce reports indicating both integrity and exceptions. **Scheduling** of resources is tied to this expert system, which regulates whether calls can be scheduled...signals in addition to data. Pure packet switching technology is not conducive to carrying voice **transmissions** because such transfers demand more stable bandwidth.

Frame relay systems use packet switching techniques, but...preparation, and analysis applications, as well as system software designed to enable WAF integration into

**host** environments and applications. WAPs usage control information, for example, provide for property.content and/or...then a CPU-locked distribution system may be more appropriate. The trade-off point is **determined** by the relative pricing between the two distribution systems.

For environments where many users need...

10/3,K/8 (Item 8 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00787038 \*\*Image available\*\*

SYSTEM AND METHOD FOR PROCESSING TOKENLESS BIOMETRIC ELECTRONIC TRANSMISSIONS USING AN ELECTRONIC RULE MODULE CLEARINGHOUSE  
SYSTEME ET PROCEDE PERMETTANT DE TRAITER DES TRANSMISSIONS ELECTRONIQUES BIOMETRIQUES SANS AUTHENTIFICATION PAR L'UTILISATION D'UN CENTRE DE MODULES DE REGLEMENT ELECTRONIQUES

Patent Applicant/Assignee:

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Inventor(s):

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LAPSLEY Philip Dean, 6029 Hillegass Avenue, Oakland, CA 94618, US,

Legal Representative:

JOHNSON Alexander C Jr (et al) (agent), Marger Johnson & McCollom, P.C.,  
1030 S.W. Morrison Street, Portland, OR 97205, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200120531 A1 20010322 (WO 0120531)

Application: WO 2000US40910 20000915 (PCT/WO US0040910)

Priority Application: US 99398914 19990916

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Search Performed by Sylvia Keys 17-May-04



(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 21206

Main International Patent Class: G06F-017/60

Fulltext Availability:

Claims

Claim

... electronic transmissions. Such Execution Commands 52 can govern: user-customized notification preferences for such electronic **transmissions** as real- **time** medical updates, pending Internet auctions, electronic stock trades and the like; user-customized instructions for... line merchants; hobby or recreational interests; interactive user-customized on-line advertisements, wherein product or **service providers** are permitted to provide unsolicited information to a user based upon certain usercustomized criteria; **on - line** event **calendaring** , wherein a user is automatically notified of upcoming events or activities reflecting their interests.  
Further...

...products, services or upcoming events based on the user's pre-scheduled activities in their **online calendar** .  
In another embodiment, an Execution Command 52 appends a customized, user-customized audio or visual...time of construction.  
In another embodiment, an Execution Command 52 governs the processing of an **on - line** , user-customized **calendaring** program or Internet calendaring web site, wherein the user's **on - line scheduling calendar** is automatically updated by the usercustomized search engine and the user-customized intelligent search and...

...54. This could include, but would not be limited to, automatically updating the user's **on - line calendar** based on upcoming: user-customized entertainment events, user-customized business seminars, usercustomized airline discounts to...

10/3,K/9 (Item 9 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00783286 \*\*Image available\*\*

**METHOD AND SYSTEM FOR EARLY DETECTION OF DISEASE**

**PROCEDE ET SYSTEME DE DETECTION PRECOCE DE MALADIE**

Patent Applicant/Inventor:

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US (Nationality)

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, US (Nationality)

Legal Representative:

CAPLAN Jonathan S (et al) (agent), Kramer Levin, Naftalis and Frankel  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200116834 A1 20010308 (WO 0116834)

Application: WO 2000US23404 20000825 (PCT/WO US0023404)

Priority Application: US 99384895 19990827

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

Search Performed by Sylvia Keys 17-May-04

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4348

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... the appointment.

In step 1030, the request for scan appointment is processed by the scheduling **service provider**. For example, the request could be processed manually using a scheduling calendar for the desired geographical location to **determine** if an **appointment** can be made. In a **computerized** system, a database system of the scheduling **service provider**, such as a conventional relational database or software program, such as MICROSOFT ACCESS, could be...

...using, for example, a credit card or other suitable form of payment and the scheduling **service provider** processes the payment. In step 1050, a user database maintained by the scheduling **service provider**, whether manually or computer-based, is updated based on the information provided by the user. For example, the scheduling **service provider** may retain each user's personal and medical information. In addition, after the scan is...

10/3,K/10 (Item 10 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00772919 \*\*Image available\*\*

**AUTOMATIC WORK PROGRESS TRACKING AND OPTIMIZING ENGINE FOR A  
TELECOMMUNICATIONS CUSTOMER CARE AND BILLING SYSTEM**

**MOTEUR DE SUIVI ET D'OPTIMISATION D'ACTIVITE AUTOMATIQUE POUR UN SYSTEME DE  
SERVICE A LA CLIENTELE ET DE FACTURATION DE TELECOMMUNICATIONS**

Patent Applicant/Assignee:

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22033, US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

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(Residence), US (Nationality), (Designated only for: US )

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200106426 A1 20010125 (WO 0106426)

Application: WO 99US16442 19990726 (PCT/WO US9916442)

Priority Application: US 99354084 19990715

Search Performed by Sylvia Keys 17-May-04

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES  
FI GB GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG  
US UZ VN YU ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW SD SL SZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10662

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... present invention to combine state of  
the art tools (an inference engine and a sophisticated **scheduler** ) to  
provide **online** and offline optimization based on configurable criteria  
It is a further object of the present...duration of time slots  
It is a further object of the present invention to perform **on - line**  
**scheduling** of new and modified activities during the day as they  
occur  
It is also a...

...a flowchart showing a portion of the online system  
shown in figure 5 dealing with **determining** completion **time** frame  
modifications  
Figure 8 is a flowchart further detailing the offline system  
shown in figure...

...capacity by tracking  
capacity within across various time periods These time periods are  
known as **time** slots A resource pool is **determined** by a regional  
5 location and a specific role The workforce resources provide  
capacity to...priority,  
duration, staff availability per job category (work pool), and material  
resources During the day, **on - line scheduling** is performed on an  
1 0 order-by-order basis During the night, offline optimization...

...order received either from  
an external system or an internally generated order by the  
telecommunications **provider**  
A sub-order ("SO") consists of internal order positions  
An internal order position ("IOP") consists...

10/3,K/11 (Item 11 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00761432

METHODS, CONCEPTS AND TECHNOLOGY FOR DYNAMIC COMPARISON OF PRODUCT FEATURES  
AND CUSTOMER PROFILE

PROCEDES, CONCEPTS ET TECHNIQUE DE COMPARAISON DYNAMIQUE DE  
CARACTERISTIQUES D'UN PRODUIT ET DU PROFIL DES CONSOMMATEURS

Patent Applicant/Assignee:

ACCENTURE LLP, 100 South Wacker Drive, Chicago, IL 60606, US, US  
(Residence), US (Nationality)

Search Performed by Sylvia Keys 17-May-04

Inventor(s):

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MITCHELL James D, 3004 Alma, Manhattan Beach, CA 90266, US,  
BARRESE James J, 757 Pine Avenue, San Jose, CA 95125, US,

Legal Representative:

BRUESS Steven C (agent), Merchant & Gould P.C., P.O. Box 2903,  
Minneapolis, MN 55402-0903, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200073958 A2 20001207 (WO 0073958)  
Application: WO 2000US14459 20000524 (PCT/WO US0014459)  
Priority Application: US 99320818 19990527

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE

DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC

LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI

SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 151011

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... high-quality textured images, or highly colored images is important,  
but where file storage and **transmission** is not an issue (where the  
media content is local to the client application, such...

10/3,K/12 (Item 12 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00751213

**METHOD AND SYSTEM FOR TRADING INTELLECTUAL PROPERTIES AND SERVICES**

**PROCEDE ET SYSTEME POUR LA COMMERCIALISATION DE DROITS DE PROPRIETE  
INTELLECTUELLE ET DE SERVICES**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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XIA Chun, 3003 Country Club Court, Palo Alto, CA 94034, US, US  
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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200063807 A2 20001026 (WO 0063807)  
Application: WO 2000US10058 20000414 (PCT/WO US0010058)  
Priority Application: US 99129589 19990416

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE

DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC

LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK

SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Search Performed by Sylvia Keys 17-May-04

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8348

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... make an appointment. (For example, the lawyer will provide his/her rate, also his/her **calendar** for open **online** service schedule.) By doing that, the client will have to review and agree the service...

...The client will also define the deadline when he/she needs a confirmation from the **service provider**. The service fee terms and **available** schedule will be **determined** by **service providers**.

To prevent no show scenarios from both parties, the system has a penalty system to...

Claim

... further comprising instructions operable to cause a programmable processor to: receive a deposit from the **service provider**; and transfer the deposit to the client if the **service provider** does not access the channel near the time of the **appointment**.

26

. A method for **electronic** commerce, comprising: receiving electronic content; automatically offering an intellectual property right for the electronic content; **receiving** a **request** for the intellectual property right; and transferring the intellectual property right to the sender of...

10/3,K/13 (Item 13 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

00744664 \*\*Image available\*\*

**MEDICAL PRACTICE MANAGEMENT SYSTEM**

**SYSTEME DE GESTION EN PRATIQUE MEDICALE**

Patent Applicant/Inventor:

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WEITZ David J, 1086 Los Altos, Los Altos, CA 94022, US, US (Residence), US (Nationality)

Patent and Priority Information (Country, Number, Date):

Patent: WO 200057264 A1 20000928 (WO 0057264)

Application: WO 2000US7773 20000322 (PCT/WO US0007773)

Priority Application: US 99125428 19990322; US 99406992 19990928

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ

Search Performed by Sylvia Keys 17-May-04

TM TR TT TZ UA UG US UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 16893

Main International Patent Class: **G06F-003/00**  
International Patent Class: **G06F-007/00** ...

... **G06F-017/60** ...

... **G06F-159/00**

Fulltext Availability:  
Detailed Description

Detailed Description

... a similar fashion, selecting physical therapy may generate a prescription for physical therapy.

The healthcare **provider** is also given the choice of having the system generate the prescription for the medication by selecting button 122. Once selected, the system is able to print prescriptions or **electronically** communicate prescriptions to a pharmacy. **Scheduling** is done directly from the treatment plan. As illustrated in Figure 19, menu 124 indicates...  
...menu 126). This information is communicated to the scheduling component. The system includes logic for **determining** an **available** **appointment time** .

At the conclusion of the patient encounter, a number of documents may be generated using...

**10/3,K/14** (Item 14 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00743892 \*\*Image available\*\*

**INTERNET-BASED HOME MANAGEMENT  
GESTION A DOMICILE PAR INTERNET**

Patent Applicant/Assignee:

MYHOMELINK COM INC, One Sansome Street, Suite 2100, San Francisco, CA 94104, US, US (Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

SEIDL John Michael, 165 Atherton Avenue, Atherton, CA 94027, US, US (Residence), US (Nationality), (Designated only for: US)  
ZAUSNER Eric R, 3620 Clay Street, San Francisco, CA 94118, US, US (Residence), US (Nationality), (Designated only for: US)

Legal Representative:

DUNNING Richard A (agent), Fish & Richardson P.C., 2200 Sand Hill Road, Suite 100, Menlo Park, CA 94025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200057259 A2 20000928 (WO 0057259)

Application: WO 2000US7731 20000324 (PCT/WO US0007731)

Priority Application: US 99125973 19990324; US 2000535258 20000323

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE

Search Performed by Sylvia Keys 17-May-04

13/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

01678688

Method and system for scheduling appointment according to real-time information

Verfahren und System zur zeitlichen Planung von Terminen gemass Echtzeitinformationen

Methode et systeme permettant de fixer des rendez-vous selon des informations en temps reel

PATENT ASSIGNEE:

Agilent Technologies Inc. (a Delaware Corporation), (2885685), 395 Page  
Mill Road, Palo Alto, CA 94306-2024, (US), (Applicant designated  
States: all)

INVENTOR:

Peskin, Christopher A. c/o Agilent Techno., Inc., Leg.Dep., M/S DL 429  
Int. Prop. Admin. PO Box 7599, Loveland, CO80537-0599, (US)  
Carlson, Gregory F., 3919 NW Clarence Circle, Corvallis, OR 97330, (US)  
Price, Carl W., 3725 NW Chinquapin Pl., Corvallis, OR 97330, (US)

LEGAL REPRESENTATIVE:

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Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1378842 A2 040107 (Basic)

APPLICATION (CC, No, Date): EP 2002013012 020612;

PRIORITY (CC, No, Date): US 948164 010905

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/60

ABSTRACT WORD COUNT: 230

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200402	632
SPEC A	(English)	200402	11146
Total word count - document A			11778
Total word count - document B			0
Total word count - documents A + B			11778

INTERNATIONAL PATENT CLASS: G06F-017/60

...SPECIFICATION scheduler incorporates the real-time physical position or geographical location information in providing event-based **appointment** augmentation functions. For example, the **electronic scheduler** can use geographical location and **time** information to **determine** that the user is at the location of a scheduled activity (e.g., appointment or...

...standard. The receiver may function to listen on a specific channel for requests to identify **electronic scheduler** 100. The **transmitter** can periodically **transmit requests** for other Bluetooth conformant devices to transmit its identification. The transmitter can also transmit identification data in response to the **receiver receiving a request** to identify **electronic scheduler** 100. Thus, real-time data acquisition component 102 may identify other electronic schedulers 100, as...is sufficient time for the user to reach the appointment destination

in time for the **appointment** . If event handler module 106 **determines** that the user has sufficient **time** to reach the **appointment** destination in time for the **appointment** , then, at step 826, **electronic scheduler** 100 performs its normal function. For example, electronic scheduler 100 may determine that it should...

...capable of communicating identification codes with electronic scheduler 100) that are within transmission range of **electronic scheduler** 100.

At step 912, real- **time** data acquisition component 102 **determines** if an identification code transmitted by a compatible electronic device is received. If an identification...

...CLAIMS based appointment.

4. The method of Claim 1 further comprising:

determining movement parameters of the **electronic scheduler** (814);  
**determining** an estimated **time** of arrival at an event-based appointment location (816) using the movement parameters, the event  
...

13/3,K/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01673051

**Automated sending of preconfigured messages**

**Automatisiertes Senden von vorkonfigurierten Nachrichten**

**Envoi automatique de messages preconfigures**

PATENT ASSIGNEE:

Sony Ericsson Mobile Communications AB, (3994770), , 221 88 Lund, (SE),  
(Applicant designated States: all)

INVENTOR:

Wong, Marcel, Lokforaregatan 15A, 22237 Lund, (SE)

Svensson, Magnus, Skansgatan 7, 21132 Malmo, (SE)

Rang, Maria, Mans Ols vag 11, 23741 Bjarred, (SE)

LEGAL REPRESENTATIVE:

Dahner, Christer et al (87303), Strom & Gulliksson IP AB, Box 7086, 103  
87 Stockholm, (SE)

PATENT (CC, No, Kind, Date): EP 1377002 A1 040102 (Basic)

APPLICATION (CC, No, Date): EP 2002014429 020628;

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: H04M-003/533; H04Q-007/22; H04M-001/2745;

**G06F-017/60**

ABSTRACT WORD COUNT: 88

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200401	678
SPEC A	(English)	200401	3470
Total word count - document A			4148
Total word count - document B			0
Total word count - documents A + B			4148

...INTERNATIONAL PATENT CLASS: **G06F-017/60**



...SPECIFICATION 28 is furthermore connected to the system clock 27. The PIM unit includes a second **electronic date determination** unit or a **calendar** 34, a first **electronic** contact register or contacts unit 38 and a second electronic contacts unit or a vCard...

13/3,K/3 (Item 3 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01373439

METHOD OF MANAGING TRANSACTION AND SETTLEMENT, AND METHOD OF INFORMING  
INFORMATION ON CONSUMPTION TRENDS  
VERFAHREN ZUR VERWALTUNG VON TRANSAKTIONEN UND BEGLEICHUNGEN UND VERFAHREN  
ZUM INFORMIEREN BER INFORMATIONEN BEZ GLICH VERBRAUCHSTRENDS  
PROCEDE DE GESTION DE TRANSACTIONS ET DE REGLEMENTS, ET PROCEDE DE  
TRANSMISSION D'INFORMATIONS CONCERNANT DES TENDANCES DE CONSOMMATION  
PATENT ASSIGNEE:

Computer Applications Co., Ltd., (3921210), 1-28-20, Kandasudacho,  
Chiyoda-ku, Tokyo 101-0041, (JP), (Applicant designated States: all)

INVENTOR:

UEHARA, Tsuyoshi, 2-3-1, Shintoride, Toride-shi Ibaraki 302-0031, (JP)  
MURAKAMI, Masaharu, c/o NTT Data Corporation 3-3-3, Toyosu Koto-ku, Tokyo  
135-6033, (JP)

LEGAL REPRESENTATIVE:

Hoffmann, Eckart, Dipl.-Ing. (5571), Patentanwalt, Bahnhofstrasse 103,  
82166 Grafelfing, (DE)

PATENT (CC, No, Kind, Date): EP 1291794 A1 030312 (Basic)  
WO 2001082162 011101

APPLICATION (CC, No, Date): EP 2001925904 010425; WO 2001JP3568 010425

PRIORITY (CC, No, Date): JP 2000125934 000426; JP 2000205305 000706

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: **G06F-017/60**

ABSTRACT WORD COUNT: 226

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200311	1868
SPEC A	(English)	200311	19667
Total word count - document A			21535
Total word count - document B			0
Total word count - documents A + B			21535

INTERNATIONAL PATENT CLASS: **G06F-017/60**

...SPECIFICATION similar, in real-time or with predetermined timing.

The supplier system 7 is capable of **sending** a **request** to the **calendar** server 25 to search for **electronic** invoices by designating a given invoice issue period and status. The calendar server 25 then...

13/3,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2004 European Patent Office. All rts. reserv.

00844435

System and method for maintaining personal communications information in a mobile communications system

System und Verfahren zur Beibehaltung persönlicher Kommunikations-Information in einem mobilen Kommunikationssystem

Systeme et procede pour la conservation d'informations de communications personnelles dans un systeme mobile de communications

PATENT ASSIGNEE:

AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412, (US), (Applicant designated States: all)

INVENTOR:

Foladare, Mark Jeffrey, 8 Matthew Avenue, Kendall Park, NJ 08824, (US)

Goldman, Shelley B., 9 Surrey Lane, East Brunswick, NJ 08816, (US)

Silverman, David Phillip, 4 Lowe Road, Somerville, NJ 08876, (US)

Weber, Roy Philip, 940 Turnberry Court, Bridgewater, NJ 08807, (US)

LEGAL REPRESENTATIVE:

Kuhnen & Wacker (101501), Patentanwaltsgesellschaft mbH,

Alois-Steinecker-Strasse 22, 85354 Freising, (DE)

PATENT (CC, No, Kind, Date): EP 781067 A2 970625 (Basic)

EP 781067 A3 001206

APPLICATION (CC, No, Date): EP 96120274 961217;

PRIORITY (CC, No, Date): US 573839 951218

DESIGNATED STATES: DE; ES; FR; GB

INTERNATIONAL PATENT CLASS: H04Q-009/00; G06F-015/02 ; G06F-017/60

ABSTRACT WORD COUNT: 159

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	EPAB97	1407
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SPEC A	(English)	EPAB97	3829
--------	-----------	--------	------

Total word count - document A	5236
-------------------------------	------

Total word count - document B	0
-------------------------------	---

Total word count - documents A + B	5236
------------------------------------	------

...INTERNATIONAL PATENT CLASS: G06F-015/02 ...

... G06F-017/60

...CLAIMS 12, characterized in that at least one of said communications devices has associated therewith an **electronic scheduler** that **transmits** information entries having **time**-based and location-based components therewith.

18. The apparatus as recited in claim 12, characterized...

13/3,K/5 (Item 5 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00719736

Electronic facsimile calendaring method and apparatus.

Verfahren und Apparat zur elektronischen Kalendererstellung mittels Faksimileübertragung.

Procede et appareil de calandrage electronique par telecopie.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,

Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

Search Performed by Sylvia Keys 17-May-04

INVENTOR:

Williams, Marvin L., 1152 Settlers Way, Lewisville, TX 75067, (US)

LEGAL REPRESENTATIVE:

Schafer, Wolfgang, Dipl.-Ing. et al (62021), IBM Deutschland  
Informationssysteme GmbH Patentwesen und Urheberrecht, D-70548  
Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 681250 A2 951108 (Basic)  
EP 681250 A3 960612

APPLICATION (CC, No, Date): EP 95104937 950403;

PRIORITY (CC, No, Date): US 234432 940426

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/60

ABSTRACT WORD COUNT: 131

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	451
SPEC A	(English)	EPAB95	3683
Total word count - document A			4134
Total word count - document B			0
Total word count - documents A + B			4134

INTERNATIONAL PATENT CLASS: G06F-017/60

...SPECIFICATION art can appreciate the selectivity the invention allows to an enterprise that wishes to control **electronic calendar requests** from facsimile **transmittals** . If the form id is not valid the process continues to block 305 which considers...been designated in field 525 of Figure 2. Element 725 illustrates the name of the **electronic calendar** user who **received** the modification **request** from a facsimile **transmission** . Display 700 also includes 720, which was designated in field 535 of Figure 2. Display...

...CLAIMS an event to an electronic calendar comprising the computer implemented steps of:  
receiving a facsimile **transmittal** which includes an **electronic calendar request** ;  
extracting the **electronic calendar request** from within said facsimile **transmittal** ; and  
submitting the **electronic calendar request** to an **electronic calendar** .  
2. The method of Claim 1, further comprising the computer implemented step of accessing an...

...system, for scheduling an event to an electronic event comprising:  
means for receiving a facsimile **transmittal** which contains an **electronic calendar request** ;  
means for extracting the **electronic calendar request** from within said facsimile **transmittal** ; and,  
means for submitting the **electronic calendar request** to an **electronic calendar** .  
11. The data processing system of Claim 10, further comprising the means for accessing an...

13/3,K/6 (Item 6 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00377858

A method for providing information security protocols to an electronic calendar.

Verfahren zur Versorgung eines elektronischen Kalenders mit Informationssicherheitsprotokollen.

Methode pour la fourniture de protocole de securite de donnees a un calendrier electronique.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Vincent, James Phillip, 1506 Prentice, St. Arlington Texas - 76018-2044, (US)

LEGAL REPRESENTATIVE:

de Pena, Alain et al (15151), Compagnie IBM France Departement de Propriete Intellectuelle, F-06610 La Gaude, (FR)

PATENT (CC, No, Kind, Date): EP 332558 A2 890913 (Basic)

EP 332558 A3 911009

APPLICATION (CC, No, Date): EP 89480011 890131;

PRIORITY (CC, No, Date): US 166572 880311

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/02 ; G06F-015/21 ; G09D-003/12

ABSTRACT WORD COUNT: 300

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	602
SPEC A	(English)	EPABF1	5478
Total word count - document A			6080
Total word count - document B			0
Total word count - documents A + B			6080

INTERNATIONAL PATENT CLASS: G06F-015/02 ...

... G06F-015/21

...SPECIFICATION In Requested Events", and assigned to the assignee of this application is directed to an **electronic calendaring** method in which a **calendar** owner, who **receives** a **request** to participate in a calendared event originated by another calendar owner, can assign an alternate...

13/3,K/7 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2004 WIPO/Univentio. All rts. reserv.

01080604 \*\*Image available\*\*

**AUTOMATED SENDING OF PRECONFIGURED MESSAGES**

**ENVOI AUTOMATIQUE DE MESSAGES PREALABLEMENT CONFIGURES**

Patent Applicant/Assignee:

SONY ERICSSON MOBILE COMMUNICATIONS AB, S-221 88 Lund, SE, SE (Residence), SE (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

WONG Marcel, Lokforaregatan 15 A, S-222 37 Lund, SE, SE (Residence), SE (Nationality), (Designated only for: US)

SVENSSON Magnus, Skansgatan 7, S-211 32 Malmo, SE, SE (Residence), SE (Nationality), (Designated only for: US)

RANG Maria, Mans Ols Vag 11, S-273 41 Bjared, SE, SE (Residence), SE

Search Performed by Sylvia Keys 17-May-04

(Nationality), (Designated only for: US)  
Legal Representative:  
DAHNER Christer (agent), Strom & Gulliksson IP AB, P.O. Box 7086, S-103  
87 Stockholm, SE,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200404296 A1 20040108 (WO 0404296)  
Application: WO 2003EP5027 20030514 (PCT/WO EP2003005027)  
Priority Application: EP 200214429 20020628; EP 60393906 20020703  
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU  
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO  
RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 4932

...International Patent Class: G06F-017/60  
Fulltext Availability:  
Detailed Description

Detailed Description  
... 28 is furthermore connected to the system clock 27. The PIM unit  
includes a second **electronic date determination** unit or a **calendar**  
34, a first **electronic** contact register or contacts unit 38 and a  
second electronic contacts unit or a vCard...

13/3,K/8 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2004 WIPO/Univentio. All rts. reserv.

00883990  
**METHOD AND SYSTEM FOR GENERATING A RECOMMENDATION FOR A SELECTION OF A  
PIECE OF CLOTHING**  
**PROCEDE ET SYSTEME POUR GENERER UNE RECOMMANDATION POUR UNE SELECTION D'UN  
ARTICLE D'HABILLEMENT**  
Patent Applicant/Assignee:  
KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA  
Eindhoven, NL, NL (Residence), NL (Nationality)  
Inventor(s):  
VAN OVERVELD Cornelius W A M, Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL

Legal Representative:  
GROENENDAAL Antonius W M (agent), Internationaal Octrooibureau B.V.,  
Prof. Holstlaan 6, NL-5656 AA Eindhoven, NL,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200217160 A2 20020228 (WO 0217160)  
Application: WO 2001EP9619 20010813 (PCT/WO EP0109619)  
Priority Application: EP 2000202948 20000823  
Designated States: JP KR  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 9170

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... the purpose 1 0 manually.

In a further embodiment the input means are arranged for **determining** the purpose based on an **appointment** in an **electronic calendar**. By applying active feedback, using input from the user, and/or passive feedback, using information...

Claim

... The system (I 20) of claim 6, the input means (3 02) being arranged for **determining** the purpose based on an **appointment** in an **electronic calendar**.

8 A method of presenting a targeted clothing advertisement to a user, comprising obtaining a...

13/3,K/9 (Item 3 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00816853 \*\*Image available\*\*

**A METHOD AND SYSTEM FOR COORDINATING REAL ESTATE APPOINTMENTS**

**PROCEDE ET SYSTEME POUR LA COORDINATION DE RENDEZ-VOUS IMMOBILIERS**

Patent Applicant/Assignee:

REALTY SALES NETWORK, Suite 266, 4640 West 77th Street, Edina, MN 55435,  
US, US (Residence), US (Nationality)

Inventor(s):

MOZAYENY Bahram, 5101 West 66th Street, Edina, MN 55439, US,  
ASBURY James E, 4511 Lakeview Drive, Edina, MN 55424, US,

Legal Representative:

FRONEK David N (et al) (agent), Dorsey & Whitney LLP, Pillsbury Center  
South, 220 South Sixth Street, Minneapolis, MN 5402-1498, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200150393 A1 20010712 (WO 0150393)

Application: WO 2001US211 20010104 (PCT/WO US0100211)

Priority Application: US 2000477573 20000104

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 11470

Main International Patent Class: G06F-017/60

Fulltext Availability:

Detailed Description

Detailed Description

... records may be used for statistical or business purposes. The feedback

process may also be **automated** by having the **appointment** server 100 automatically **send** an e-mail or other **request** to the showing realtor 18 requesting general or specific information about the showing. These and...

13/3,K/10 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00801779 \*\*Image available\*\*

**AUTOMATED RECEIVING AND DELIVERY SYSTEM AND METHOD**  
**SYSTEME AUTOMATIQUE DE RECEPTION ET DE LIVRAISON ET PROCEDE ASSOCIE**

Patent Applicant/Inventor:

SIMMS Noel, Campaign Mail & Data Inc., 7704 Leesburg Pike, Falls Church,  
VA 22043, US, US (Residence), US (Nationality)  
SIMMS John, Campaign Mail & Data, Inc., 7704 Leesburg Pike, Falls Church,  
VA 22043, US, US (Residence), US (Nationality)

Legal Representative:

CLARKE Dennis (et al) (agent), Miles & Stockbridge P.C., 1751 Pinnacle  
Drive, Suite 500, McLean, VA 22102, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200135300 A1 20010517 (WO 0135300)  
Application: WO 2000US30914 20001109 (PCT/WO US0030914)  
Priority Application: US 99164267 19991109

Designated States: AU CA CN JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Publication Language: English

Filing Language: English

Fulltext Word Count: 6912

Main International Patent Class: **G06F-017/60**

Fulltext Availability:

Detailed Description

Detailed Description

... of FIG. 6 may keep a running total of space available that is  
supplied, upon **automated** request, to the **scheduler** .

If block 76 **determines** that not enough space is **available** , control  
goes to block 78 where the order is divided into two or more portions...

?

File 344:Chinese Patents Abs Aug 1985-2004/Mar  
(c) 2004 European Patent Office  
File 347:JAPIO Nov 1976-2004/Jan(Updated 040506)  
(c) 2004 JPO & JAPIO  
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200431  
(c) 2004 Thomson Derwent

? ds

Set	Items	Description
S1	664	(ONLINE OR ON()LINE OR AUTOMATE? OR COMPUTERI? OR ELECTRON-IC?) (5N) (SCHEDULER? OR SCHEDULING? OR CALENDAR? OR APPOINTMENT?)
S2	20880	SERVICE() PROVIDER? OR WEBHOST? OR WEB()HOST? OR ISP OR INTERNET()SERVICE() PROVIDER? OR PROVIDER OR PROVIDERS
S3	55219	(RECEIVE? ? OR RECEIVING OR TRANSMIT? OR TRANSMIS? OR SEND? ? OR SENDING) (5N)REQUEST? ?
S4	10093	(TRANSMIT? OR TRANSMIS? OR SEND? ?OR SENDING) (5N) (VERIF? OR CONFIRM? OR ACKNOWLEDG?)
S5	81380	(TRANSMIT? OR TRANSMIS? OR SEND? ? OR SENDING) (5N) (TIME OR TIMES OR DATE OR DATES)
S6	53712	(DETERMIN? OR ASSESS?) (5N) (AVAILABLE? OR AVAILABILITY OR TIME OR TIMES OR DATE OR DATES OR APPOINTMENT?)
S7	88	AU=(TAM, T? OR TAM T? OR MOK, R? OR MOK R? OR LUK, S? OR LUK S?)
S8	15	S1 AND S2
S9	3	S8 AND (S3 OR S4 OR S5 OR S6)
S10	0	S7 AND S1



8/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2004 JPO & JAPIO. All rts. reserv.

06254806 \*\*Image available\*\*  
STORAGE TYPE INFORMATION BROADCAST SYSTEM AND RECEPTION TERMINAL EQUIPMENT  
FOR THE SYSTEM

PUB. NO.: 11-196385 [JP 11196385 A]  
PUBLISHED: July 21, 1999 (19990721)  
INVENTOR(s): HARADA TAKENOSUKE  
KATAOKA MITSUTERU  
MASUDA ISAO  
MACHIDA KAZUHIRO  
APPLICANT(s): JISEDAI JOHO HOSO SYSTEM KENKYUSHO KK  
MATSUSHITA ELECTRIC IND CO LTD  
APPL. NO.: 09-368935 [JP 97368935]  
FILED: December 26, 1997 (19971226)  
INTL CLASS: H04N-007/025; H04N-007/03; H04N-007/035; H04H-001/00;  
H04H-001/02; H04N-005/445; H04N-005/765; H04N-005/781

ABSTRACT

PROBLEM TO BE SOLVED: To provide a new data broadcast system by which information matched with the taste of a viewer is automatically stored and the viewer can view the information at a desired time.  
SOLUTION: A broadcast station 330 multiplexes a digest program including tag information and contents of main body information onto main program information and broadcasts the resulting information, and an information provider 340 stores the digest and main program information introduced thereby to a database 323. A reception terminal equipment 304 is provided with a scheduling means 319 that receives an electronic program guide EPG whose contents are tag information of each tag information to plan a reception schedule of each digest, a storage means 309 that stores the received digests, a display means 313, and a communication means 318 that makes communication with the database via a communication channel 320. The viewer enjoys viewing contents of the digest stored in the reception terminal equipment displayed on the display means at a preferred time and enjoys acquiring a main program from the database based on the digest.

COPYRIGHT: (C)1999, JPO

8/5/2 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

016130869 \*\*Image available\*\*  
WPI Acc No: 2004-288745/200427  
XRPX Acc No: N04-229292

**Event information notification method in Internet applications, involves using electronic calendar in client notebook personal computer for notifying event information delivered from calendar service server**

Patent Assignee: SHIOYA T (SHIO-I)  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2004086742	A	20040318	JP 2002249295	A	20020828	200427 B

Priority Applications (No Type Date): JP 2002249295 A 20020828

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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Search Performed by Sylvia Keys 17-May-04

Abstract (Basic): JP 2004086742 A

NOVELTY - The event information retrieved from the event database (25) is delivered from the calendar service server (CSS) (21) and notified to the client notebook personal computer (PC) by using the **electronic calendar** in the client PC.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for event information notification program.

USE - For notifying event information to client notebook personal computer (PC) in Internet applications.

ADVANTAGE - Improves utilization efficiency of **electronic calendar** for event information notification.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the **Internet** service provider . (Drawing includes non-English Language text).

CSS (21)  
user's database (24)  
event database (25)  
information extraction unit (26)  
analysis output unit (27)  
pp; 13 DwgNo 2/8

Title Terms: EVENT; INFORMATION; NOTIFICATION; METHOD; APPLY; ELECTRONIC;  
CALENDAR; CLIENT; PERSON; COMPUTER; NOTIFICATION; EVENT; INFORMATION;  
DELIVER; CALENDAR; SERVICE; SERVE

Derwent Class: P85; T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G09G-005/00

File Segment: EPI; EngPI

8/5/3 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015599519 \*\*Image available\*\*  
WPI Acc No: 2003-661674/200362  
XRPX Acc No: N03-527950

**Scheduling method for scheduling live advice communication, involves scheduling live advice communication appointment between service seeker and selected service provider once appointment request is accepted by selected service provider**

Patent Assignee: LURIE S (LURI-I)

Inventor: LURIE S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030126205	A1	20030703	US 200132518	A	20011227	200362 B

Priority Applications (No Type Date): US 200132518 A 20011227

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030126205	A1	59	G06F-015/16	

Abstract (Basic): US 20030126205 A1

NOVELTY - The method involves scheduling a live advice communication appointment between a service seeker (102-1) and a selected **service provider** (200-1-200-N), once the appointment request is accepted with the selected **service provider** . The selected **service provider** is connected with the service seeker for

a live advice communication at the specified appointment time.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) a computer readable storage medium;
- (b) a **service provider** scheduling system; and
- (c) a scheduling apparatus.

USE - For scheduling live advice communication between service seeker and selected **service provider** .

ADVANTAGE - Provides service seekers with additional flexibility since service seekers that desire to receive live advice communications from more popular **service providers** can now schedule an appointment time with the desired **service provider** . Provides **service providers** with additional flexibility to select or decline the appointments in which to engage. Ensures connection of a service seeker to an extremely popular **service provider** . Enables **service providers** to gauge interest in the service they provide.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the system in which a **service provider** system enabling on - line **service provider appointment scheduling** may be implemented.

Service seeker (102-1)

Selected **service provider** (200-1-200-N)

pp; 59 DwgNo 1/36

Title Terms: SCHEDULE; METHOD; SCHEDULE; LIVE; ADVICE; COMMUNICATE;  
SCHEDULE; LIVE; ADVICE; COMMUNICATE; APPOINT; SERVICE; SEEKER; SELECT;  
SERVICE; APPOINT; REQUEST; ACCEPT; SELECT; SERVICE

Derwent Class: T01

International Patent Class (Main): G06F-015/16

File Segment: EPI

8/5/4 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015594341 \*\*Image available\*\*

WPI Acc No: 2003-656496/200362

XRPX Acc No: N03-522923

**Telephone connection reservation method for internet, involves terminating telephone call to next available port, when caller has valid reservation for internet service provider during current time slot**

Patent Assignee: BELLSOUTH INTELLECTUAL PROPERTY CORP (BELL-N)

Inventor: MALIK D W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6584097	B1	20030624	US 99409688	A	19990930	200362 B

Priority Applications (No Type Date): US 99409688 A 19990930

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6584097 B1 16 H04L-012/66

Abstract (Basic): US 6584097 B1

NOVELTY - A caller's **internet service provider (ISP)** and a time slot request are matched and stored in a database along with a subscriber telephone number. When a caller calls corresponding **ISP** , a service control point queries database to ensure whether the caller has valid reservation for **ISP** during current time slot. If so, the service switching points, terminate the call to next available port.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the

Search Performed by Sylvia Keys 17-May-04

following:

(1) telecommunication system; and

(2) telecommunication network.

USE - For reserving telephone connection to **internet service providers**, in telecommunication system (claimed) using internet.

ADVANTAGE - Provides **automated** system for **scheduling** internet time slots for **ISP** subscribers, and provides billing support for internet reservation systems. Increases internet subscriber's chances to obtain connection to their ISPs.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart explaining the telephone connection reservation process.

pp; 16 DwgNo 4/5

Title Terms: TELEPHONE; CONNECT; RESERVE; METHOD; TERMINATE; TELEPHONE;

CALL; AVAILABLE; PORT; CALL; VALID; RESERVE; SERVICE; CURRENT; TIME; SLOT

Derwent Class: W01; W02

International Patent Class (Main): H04L-012/66

File Segment: EPI

8/5/5 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015250586 \*\*Image available\*\*

WPI Acc No: 2003-311512/200330

XRPX Acc No: N03-247970

**Customer support management for hardware and software products, involves creating customer record using automated scheduling tool and performing routing of information to remote service delivery agent**

Patent Assignee: INT BUSINESS MACHINES CORP (IBM )

Inventor: BELL J J; COOK H; DAHLGREN R K; EDINGER J; GREAVES C; HAYASHI K; KAMSZIK W; LEDER D G; PARTINGTON E; RYAN N W; SIMONIN C A; BELL J; DAHIGREN K; LEDER D

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020194047	A1	20021219	US 2001859994	A	20010517	200330 B
AU 200240641	A	20021121	AU 200240641	A	20020514	200330

Priority Applications (No Type Date): US 2001859994 A 20010517

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20020194047	A1		25	G06F-017/60	
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AU 200240641	A			G06F-017/60	
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Abstract (Basic): US 20020194047 A1

NOVELTY - A customer record including information about the customer, product, **service provider**, and routing information is created in a database using an **automated scheduling** tool, corresponding to a customer support request. The information is routed to a remote service delivery agent which develops an action plan. The delivery agent is local to the customer.

USE - For managing customer support for both hardware and software products for use by multinational corporations as well as businesses with limited geographical customer bases.

ADVANTAGE - Offers single, standardized business model for worldwide management of customer requests, thus enhancing efficiency, and realizing cost savings.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining the steps in the management of customer requests.

pp; 25 DwgNo 1/4  
Title Terms: CUSTOMER; SUPPORT; MANAGEMENT; HARDWARE; SOFTWARE; PRODUCT;  
CUSTOMER; RECORD; AUTOMATIC; SCHEDULE; TOOL; PERFORMANCE; ROUTE;  
INFORMATION; REMOTE; SERVICE; DELIVER; AGENT  
Derwent Class: T01  
International Patent Class (Main): G06F-017/60  
File Segment: EPI

8/5/6 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

015060938 \*\*Image available\*\*  
WPI Acc No: 2003-121454/200312  
XRPX Acc No: N03-096699

**Patient and medical service provider Internet communications and management system, comprising patient care global network system with authorized access by patient set preferences to prior global medical history**

Patent Assignee: GILL J (GILL-I); KHALIL R (KHAL-I)  
Inventor: GILL J; KHALIL R  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2342977	A1	20021009	CA 2342977	A	20010409	200312 B

Priority Applications (No Type Date): CA 2342977 A 20010409

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2342977	A1	E	6	H04L-012/16	

Abstract (Basic): CA 2342977 A1

NOVELTY - A global patient care system comprising: a global electronic network of patients, doctors and other paramedical services such as laboratories and pharmacies. Patients are identified and allowed appropriate access when authorized by using preferences set by the patient. Medical history of patients is globally accessible from any place using any device that has Internet access at any time. Patients prior global medical history can be examined by authorized doctors.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) A dual mode patient care system.
- (2) An electronic prescription system.
- (3) An electronic requisition issuing system.
- (4) A system that provides an electronic searchable database.
- (5) An **electronic appointment self-scheduling** system.
- (6) An online authorization and billing system.
- (7) An electronic messaging and document transfer system.

USE - Patient and medical **service provider** Internet communications and management system.

ADVANTAGE - Enables medical **service providers** and patients to communicate easily over the Internet and allows storage of real time patient data securely, while providing access with appropriate authorization from the patient. Also a dual mode feature allows patients who are not willing for privacy reasons to have their medical data to be stored and processed outside of their local medical **service providers** office. The system allows patients to schedule **online appointments** with doctors, laboratories etc., check their medical

history and access other online services. Doctors can have access and update their patients data from anywhere provided they have Internet access. Doctors can write electronic prescriptions and requisitions and receive test results online etc.

DESCRIPTION OF DRAWING(S) - The diagram illustrates how medical **service providers** are connected on a global network such the Internet.

pp; 6 DwgNo 1/1

Title Terms: PATIENT; MEDICAL; SERVICE; COMMUNICATE; MANAGEMENT; SYSTEM; COMPRISE; PATIENT; CARE; GLOBE; NETWORK; SYSTEM; AUTHORISE; ACCESS; PATIENT; SET; PRIOR; GLOBE; MEDICAL; HISTORY

Derwent Class: S05; T01; T05; W01

International Patent Class (Main): H04L-012/16

International Patent Class (Additional): G06F-017/60; H04L-009/32

File Segment: EPI

8/5/7 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015015571

WPI Acc No: 2003-076088/200307

XRPX Acc No: N03-058941

**Computer-implemented method for scheduling appointments between customers and service providers e.g. for online medicine**

Patent Assignee: AVENTIS HOLDINGS INC (AVET )

Inventor: ARGENBRIGHT K E; GALBRAITH R E; GHOSH P; MARUR V R; MILAM S P; NUDD A J

Number of Countries: 096 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 2002101622	A1	20021219	WO 2001US18760	A	20010611	200307 B

Priority Applications (No Type Date): WO 2001US18760 A 20010611

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 2002101622	A1	E	82	G06F-017/60	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

Abstract (Basic): WO 2002101622 A1

NOVELTY - The method involves providing an electronic interface which allows for communication with customers who access the interface via a customer user interface to request **appointments**. Some **service providers** have **electronic scheduling** systems. The interface includes a table that indicates which **service providers** have an **electronic scheduling** system that is available for automatic scheduling of appointments and which do not. Upon a user request it is determined if an automatic appointment can be made. The interface sends the customer one of two responses depending on whether the appointment can be made or not.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: a computer-implemented method of customizing content of a medical inquiry session; a computer-implemented method of delivering messages to patients doctor; a computer-implemented method of creating standardized responses to patient enquires; an article of manufacture

Search Performed by Sylvia Keys 17-May-04

for scheduling appointments.

USE - For Internet based medicine.

ADVANTAGE - Provides Internet-based tools to improve communication between patients and medical **providers** . Enables patients to become active in managing their health.

pp; 82 DwgNo 0/33

Title Terms: COMPUTER; IMPLEMENT; METHOD; SCHEDULE; CUSTOMER; SERVICE; MEDICINE

Derwent Class: S05; T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06F-015/18; G06F-017/30

File Segment: EPI

8/5/8 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014861529 \*\*Image available\*\*

WPI Acc No: 2002-682235/200273

XRPX Acc No: N02-538631

**Home appliance repair scheduling method for online repair services, involves forwarding time slot list to client based on the determined time slots with respect to received appliance and geographical identifiers**

Patent Assignee: CALLAHAN K (CALL-I); GIBBENS D (GIBB-I)

Inventor: CALLAHAN K; GIBBENS D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020107716	A1	20020808	US 2001778311	A	20010207	200273 B

Priority Applications (No Type Date): US 2001778311 A 20010207

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020107716	A1		32	G06F-017/60	

Abstract (Basic): US 20020107716 A1

NOVELTY - A repair scheduling server determines the available repair time slots based on the appliance identifier and geographical identifier received from a client. Based on the detected time slot, the suitable time slot list is indicated to the client and client selected time slot is received.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for appliance repair scheduling device.

USE - For scheduling of repair services related to various home appliances e.g. dish washer in on-line repair services through internet.

ADVANTAGE - Improves customers service due to dynamic allocation of time slots in cooperation with **service providers** and clients.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart representing time slot allocation process.

pp; 32 DwgNo 6/26

Title Terms: HOME; APPLIANCE; REPAIR; SCHEDULE; METHOD; REPAIR; SERVICE; FORWARDING; TIME; SLOT; LIST; CLIENT; BASED; DETERMINE; TIME; SLOT; RESPECT; RECEIVE; APPLIANCE; GEOGRAPHICAL; IDENTIFY

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/9 (Item 8 from file: 350)

Search Performed by Sylvia Keys 17-May-04

DIALOG(R)File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014807243      \*\*Image available\*\*  
WPI Acc No: 2002-627949/200267  
XRPX Acc No: N02-496523

**Information system e.g. for Internet, includes a number of user terminals, and a service provider connected to each other via named terminal, and the service provider includes a database**

Patent Assignee: HANSSON M (HANS-I)

Inventor: HANSSON M

Number of Countries: 097    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200271272	A1	20020912	WO 2002SE241	A	20020218	200267 B

Priority Applications (No Type Date): US 2001269248 P 20010216; SE 2001533  
A 20010216

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200271272	A1	E	41	G06F-017/30	
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Designated States (National): AE AG AL AM AU AZ BA BB BG BR BY BZ CA CH  
CN CO CR CU DM DZ EC ES GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU  
SD SE SG SI SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

Abstract (Basic): WO 200271272 A1

NOVELTY - System for providing information in a computer networks, comprises user terminals and a **service provider** connected to each other via the network. The **service provider** comprises a database. The user terminals are divided into service supplier and service searcher. The service suppliers are arranged to access the **service providers** via the network and based on allocated rights to store information at **service provider** and that the system provides information to the service searcher with respect to personal profile provided with the service searcher containing time and/or event criterion. The time and/or event criterion limit provides the information, to information relevant after time and/or event determined by the service searcher.

DETAILED DESCRIPTION - INDEPENDENT CLAIM included for the following:

(a) method for supplying information

USE - For Internet.

ADVANTAGE - Accurate information within many different areas exactly matched to the users search profile. A unique possibility for advertisers to place and choose the extent of the information. A very friendly user interface to find what is interesting for each individual. The user can decide which way the information will be delivered: via a web page, email, SMS, WAP and such. The personal **online calendar** can be synchronised with a local calendar program.

DESCRIPTION OF DRAWING(S) - The diagram shows the system

**service provider** (15)

database (16)

pp; 41 DwgNo 1/10

Title Terms: INFORMATION; SYSTEM; NUMBER; USER; TERMINAL; SERVICE; CONNECT;  
NAME; TERMINAL; SERVICE; DATABASE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

Search Performed by Sylvia Keys 17-May-04



International Patent Class (Additional): G06F-017/60  
File Segment: EPI

8/5/10 (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014804636 \*\*Image available\*\*  
WPI Acc No: 2002-625342/200267

**Method and system for information management of company using erp,  
groupware and video conference**

Patent Assignee: KOREA IND DATABASE CO LTD (KOIN-N)

Inventor: KIM I H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2002026630	A	20020412	KR 200057831	A	20001002	200267 B

Priority Applications (No Type Date): KR 200057831 A 20001002

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2002026630	A	1	G06F-017/60	

Abstract (Basic): KR 2002026630 A

NOVELTY - A method and a system for the information management of a company using the ERP(Enterprise Resource Planning), a groupware and a video conference are provided to make a company take the company information management service through the integrated company information management system of ASP(Application **Service Provider** ) via the Internet and intranet without constructing a separate system.

DETAILED DESCRIPTION - The manager provides a database server(101) necessary for the sequential company activity such as sales, purchasing, accounting, top manager information and so on, a groupware server(101) managing an e-mail, an electronic bulletin board, an **electronic** signature, optical document filing, group **scheduling** , facsimile management and so on, a video conference server(101) directly executing a group work with a remote worker through a network to a customer(102), an accountant(103), a purchasing company(104), a supplier company(105) and a supplier(106) under a security and authentication system. The service is provided by linking with the servers, and partially integrated and selectively provided.

pp; 1 DwgNo 1/10

Title Terms: METHOD; SYSTEM; INFORMATION; MANAGEMENT; COMPANY; VIDEO;  
CONFER

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/11 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014686822 \*\*Image available\*\*  
WPI Acc No: 2002-507526/200254  
XRPX Acc No: N02-401645

**Appointment setting method in health care streamlining system, involves  
selecting available time period on appointment schedule retrieved from  
database**

Patent Assignee: MOCZYGEMBA R (MOCZ-I)  
Inventor: MOCZYGEMBA R  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020059082	A1	20020516	US 2000249045	A	20001115	200254 B
			US 20013361	A	20011115	

Priority Applications (No Type Date): US 2000249045 P 20001115; US 20013361 A 20011115

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020059082	A1	8	G06F-017/60	Provisional application US 2000249045

Abstract (Basic): US 20020059082 A1

NOVELTY - The patient retrieves the appointment schedule of the health care **provider**, from a database after entering the patient's static information and the patient's current information onto the database. The patient selects the available time period on the appointment schedule and secures the **appointment** with the **electronic** transaction or through pre-authorized insurance verification procedure.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Appointment setting system; and
- (2) Article of manufacture comprising computer readable medium storing appointment setting program.

USE - For setting appointment with health care **provider**, such as physicians, chiropractor, dentists, psychiatrists, therapists in health care streamlining system using global network especially Internet, and other communication network. Also applicable for setting appointments with hair stylists, architects, attorneys, mechanics, repair shops and advisers. For setting appointment with health care **provider** in health care streamlining system using Internet.

ADVANTAGE - Allows the patient to **electronically** repay for the **appointment** and to **electronically** make arrangements for insurance coverage. Reduces patient waiting time while realizing reduction of staffing and staff work. Allows patient to set appointments with multiple healthcare **providers** in multiple locations, without requiring knowledge of particular computer programming language. Allows healthcare **provider** to be ready for review and become familiarized with patient problem, since the history of present illness or condition and chief complaint are filled out prior to appointment. Allows for real time appointment scheduling confusions such as double-booking and prioritizing. Helps healthcare **provider** to manage and maintain organized schedule and block off unavailable times and designating time period allotments for appointments. Provides new technique for healthcare **providers** who want to simplify their practice and increase their revenue.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart illustrating appointment setting processes.

pp; 8 DwgNo 2/2

Title Terms: APPOINT; SET; METHOD; HEALTH; CARE; STREAMLINED; SYSTEM; SELECT; AVAILABLE; TIME; PERIOD; APPOINT; SCHEDULE; RETRIEVAL; DATABASE

Derwent Class: S05; T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/12 (Item 11 from file: 350)

Search Performed by Sylvia Keys 17-May-04

DIALOG(R)File 350:Derwent WPIX  
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014228528      \*\*Image available\*\*  
WPI Acc No: 2002-049226/200206  
XRPX Acc No: N02-036424

**Automated and customized activity report generation that draws event information from event promoters according to user specified event profiles**

Patent Assignee: HEWLETT-PACKARD CO (HEWP )  
Inventor: KASSMAN D H  
Number of Countries: 094    Number of Patents: 007  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200180144	A2	20011025	WO 2001US12564	A	20010417	200206	B
AU 200157084	A	20011030	AU 200157084	A	20010417	200219	
NO 200106152	A	20011217	WO 2001US12564	A	20010417	200225	
			NO 20016152	A	20011217		
SE 200104212	A	20020218	WO 2001US12564	A	20010417	200229	
			SE 20014212	A	20011214		
GB 2367672	A	20020410	WO 2001US12564	A	20010417	200232	
			GB 2002841	A	20020115		
DE 10191779	T	20020905	DE 1091779	A	20010417	200266	
			WO 2001US12564	A	20010417		
EP 1264265	A2	20021211	EP 2001930557	A	20010417	200301	
			WO 2001US12564	A	20010417		

Priority Applications (No Type Date): US 2000551487 A 20000418

Patent Details:

Patent No    Kind    Lan    Pg    Main    IPC    Filing Notes

WO 200180144    A2    E    30    G06F-017/60

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200157084    A            G06F-017/60    Based on patent WO 200180144

NO 200106152    A            G06F-017/60

SE 200104212    A            G06F-017/60

GB 2367672    A            G06F-017/60    Based on patent WO 200180144

DE 10191779    T            G06F-017/60    Based on patent WO 200180144

EP 1264265    A2    E            G06F-017/60    Based on patent WO 200180144

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): WO 200180144 A2

NOVELTY - A user interacts with a computer (103) via a user interface (107) and the computer may couple to the Internet (109) via an interconnection device (111) and to a link (113). A **service provider** (120) can display aggregated services via the Internet and an activity reference guide service site (121) is accessed by a user via the Internet or by a separate path (122) coupled to the user installation (101).

DETAILED DESCRIPTION - Event information from promoters (115,117,119) is collected through the Internet to the user installation.

USE - Generating and scheduling a personal activity report from disparate events.

ADVANTAGE - Providing **automated calendaring** and event identification.

DESCRIPTION OF DRAWING(S) - The drawing is a block diagram of a

Search Performed by Sylvia Keys 17-May-04

communication arrangement  
Computer (103)  
User interface (107)  
**Service provider**0 (120)  
Guide service site (121)  
User installation (101)  
Promoters (115,117,119)  
pp; 30 DwgNo 1/9

Title Terms: AUTOMATIC; CUSTOMISATION; ACTIVE; REPORT; GENERATE; DRAW;  
EVENT; INFORMATION; EVENT; PROMOTE; ACCORD; USER; SPECIFIED; EVENT;  
PROFILE

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/13 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014126726 \*\*Image available\*\*

WPI Acc No: 2001-610936/200170

XRPX Acc No: N01-456063

Electronic calendar **service providing system for mobile terminals,**  
**includes user service providers for providing scheduled calendar**  
**services to mobile terminals through mobile communication network**

Patent Assignee: NOKIA CORP (OYNO ); NOKIA INC (OYNO )

Inventor: BLANTS L

Number of Countries: 023 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200120409	A2	20010322	WO 2000IB1307	A	20000914	200170 B
EP 1305676	A2	20030502	EP 2000958913	A	20000914	200331
			WO 2000IB1307	A	20000914	
US 6732080	B1	20040504	US 99397003	A	19990915	200430

Priority Applications (No Type Date): US 99397003 A 19990915

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200120409	A2	E	54	G04G-000/00	
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Designated States (National): CN JP LC

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

EP 1305676	A2	E		G04G-001/00	Based on patent WO 200120409
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Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI  
LU MC NL PT SE

US 6732080	B1			G06F-017/60	
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Abstract (Basic): WO 200120409 A2

NOVELTY - The calendaring and scheduling server (20) executes a software in response to user location, scheduled time to schedule the user service. The user **service** providers (27,28) provide the scheduled services to be displayed in display (14) of mobile terminal (12) under the control of processor, through mobile communication network system (16).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for calendar service providing method.

USE - For mobile terminals such as mobile telephones.

ADVANTAGE - The user of mobile terminal is facilitated to obtain world wide calendaring service including access to user services and information services. User and information access to calendar

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application program makes calendar function more robust. Information services provide information which is useful to terminal user and may or may not have schedule time of delivery. When conflict in user's schedule between different services as time and/or location which is dependent on position stored in calendar, is detected, scheduled services are rescheduled thus avoiding conflict in user's schedule. When user travels to location stored in server, the **service providers** provide useful information sources to the user.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of electronic calendar service providing system.

Mobile terminal (12)

Display (14)

Network system (16)

Server (20)

User **service providers** (27,28)

pp; 54 DwgNo 1/5

Title Terms: ELECTRONIC; CALENDAR; SERVICE; SYSTEM; MOBILE; TERMINAL; USER; SERVICE; SCHEDULE; CALENDAR; SERVICE; MOBILE; TERMINAL; THROUGH; MOBILE; COMMUNICATE; NETWORK

Derwent Class: S02; S04; T01; W01

International Patent Class (Main): G04G-000/00; G04G-001/00; G06F-017/60

File Segment: EPI

**8/5/14 (Item 13 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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010980377 \*\*Image available\*\*

WPI Acc No: 1996-477326/199647

Related WPI Acc No: 1995-269646

XRPX Acc No: N96-402476

**Remote service provision apparatus e.g. for remote financial services - has smart card with modem and VEIL interface to extract data from television receiver and allows user to define modem transaction with provider**

Patent Assignee: SMART TV CO (SMAR-N); SMARTTV CO (SMAR-N)

Inventor: MORRIS J C; NEMIROFSKY F

Number of Countries: 070 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9632702	A1	19961017	WO 96US4951	A	19960410	199647 B
AU 9654497	A	19961030	AU 9654497	A	19960410	199708
US 5880769	A	19990309	US 94183525	A	19940119	199917
			US 95419665	A	19950410	
JP 11503587	W	19990326	JP 96531148	A	19960410	199923
			WO 96US4951	A	19960410	
EP 958557	A1	19991124	EP 96911693	A	19960410	199954
			WO 96US4951	A	19960410	

Priority Applications (No Type Date): US 95419665 A 19950410; US 94183525 A 19940119

Cited Patents: 00 39989700; 05 14466300; 9520294

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9632702 A1 E 21 G07F-007/10

Designated States (National): AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG UZ VN

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG

Search Performed by Sylvia Keys 17-May-04

AU 9654497 A Based on patent WO 9632702  
US 5880769 A H04N-007/08 CIP of application US 94183525  
CIP of patent US 5594493  
JP 11503587 W 23 H04N-007/16 Based on patent WO 9632702  
EP 958557 A1 E G07F-007/10 Based on patent WO 9632702  
Designated States (Regional): AT BE CH DE DK FI FR GB GR IE IT LI LU MC  
NL PT SE

Abstract (Basic): WO 9632702 A

The apparatus uses a smart card with interactive facilities. The smart card (10) also has a light detector which receives (14) signals from a television (13) and decodes information from it. Such information may be included in the television images by a **service provider** (15).

The smart card also includes an LCD display and buttons which allow the user to select operations from menus on the display. The card also has a modem facility. When the user has extracted data from a television and/or selected a related service, the modem carries out a transaction over the telephone with the **service provider**.

USE/ADVANTAGE - E.g. near VOD with **automated** order and billing, **appointment** TV, home shopping, realtime market studies, opinion polls, electronic gaming and sweepstakes. Provides common card for handling services with many **providers** including those transmitting television data.

Dwg.1/6

Title Terms: REMOTE; SERVICE; PROVISION; APPARATUS; REMOTE; FINANCIAL; SERVICE; SMART; CARD; MODEM; VEIL; INTERFACE; EXTRACT; DATA; TELEVISION; RECEIVE; ALLOW; USER; DEFINE; MODEM; TRANSACTION

Derwent Class: T01; T05; W01; W02; W03; W04

International Patent Class (Main): G07F-007/10; H04N-007/08; H04N-007/16

International Patent Class (Additional): G07F-007/08

File Segment: EPI

8/5/15 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009642793 \*\*Image available\*\*

WPI Acc No: 1993-336342/199342

XRPX Acc No: N93-260019

**Negotiating and contracting method for unscheduled space for e.g. cargo, passenger on commercial carrier**

Patent Assignee: LEISECA E (LEIS-I)

Inventor: AGUERO R F; LEISECA E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5253165	A	19931012	US 89449057	A	19891218	199342 B
			US 90625993	A	19901212	

Priority Applications (No Type Date): US 90625993 A 19901212; US 89449057 A 19891218

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5253165	A		8	G06F-015/24	CIP of application US 89449057

Abstract (Basic): US 5253165 A

The method involves using a **computerized** reservations and **scheduling** system which alternately allows transportation consumers to

Search Performed by Sylvia Keys 17-May-04

select from pre-scheduled transportation services provided by transportation **providers** or to negotiate and contract with transportation **providers** who have available unscheduled transportation space. The system comprises a central computerized data base. Transportation **providers** and consumers alike access the computer via several of terminal units.

The central computerized data base comprises a maybe file for storing information regarding available unscheduled transportation space which may be offered by a **provider** for service if a suitable consumer demand exists and for storing information regarding unscheduled transportation space which is needed by consumers. The maybe file facilitates negotiating and contracting between the parties.

ADVANTAGE - Optimises consumer efficiency.

Dwg.1/2

Title Terms: NEGOTIATE; CONTRACT; METHOD; UNSCHEDULED; SPACE; CARGO; PASSENGER; COMMERCIAL; CARRY

Derwent Class: T01

International Patent Class (Main): G06F-015/24

File Segment: EPI

?

9/5/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015015571

WPI Acc No: 2003-076088/200307

XRPX Acc No: N03-058941

**Computer-implemented method for scheduling appointments between customers and service providers e.g. for online medicine**

Patent Assignee: AVENTIS HOLDINGS INC (AVET )

Inventor: ARGENTBRIGHT K E; GALBRAITH R E; GHOSH P; MARUR V R; MILAM S P; NUDD A J

Number of Countries: 096 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 2002101622	A1	20021219	WO 2001US18760	A	20010611	200307 B

Priority Applications (No Type Date): WO 2001US18760 A 20010611

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 2002101622	A1	E	82	G06F-017/60	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

Abstract (Basic): WO 2002101622 A1

NOVELTY - The method involves providing an electronic interface which allows for communication with customers who access the interface via a customer user interface to request **appointments**. Some **service providers** have **electronic scheduling** systems. The interface includes a table that indicates which **service providers** have an **electronic scheduling** system that is available for automatic scheduling of appointments and which do not. Upon a user request it is **determined** if an automatic **appointment** can be made. The interface sends the customer one of two responses depending on whether the appointment can be made or not.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: a computer-implemented method of customizing content of a medical inquiry session; a computer-implemented method of delivering messages to patients doctor; a computer-implemented method of creating standardized responses to patient enquires; an article of manufacture for scheduling appointments.

USE - For Internet based medicine.

ADVANTAGE - Provides Internet-based tools to improve communication between patients and medical **providers**. Enables patients to become active in managing their health.

pp; 82 DwgNo 0/33

Title Terms: COMPUTER; IMPLEMENT; METHOD; SCHEDULE; CUSTOMER; SERVICE; MEDICINE

Derwent Class: S05; T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06F-015/18; G06F-017/30

File Segment: EPI

9/5/2 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX



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014861529 \*\*Image available\*\*

WPI Acc No: 2002-682235/200273

XRPX Acc No: N02-538631

**Home appliance repair scheduling method for online repair services, involves forwarding time slot list to client based on the determined time slots with respect to received appliance and geographical identifiers**

Patent Assignee: CALLAHAN K (CALL-I); GIBBENS D (GIBB-I)

Inventor: CALLAHAN K; GIBBENS D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020107716	A1	20020808	US 2001778311	A	20010207	200273 B

Priority Applications (No Type Date): US 2001778311 A 20010207

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020107716	A1	32	G06F-017/60	

Abstract (Basic): US 20020107716 A1

NOVELTY - A repair scheduling server **determines the available repair time slots** based on the appliance identifier and geographical identifier received from a client. Based on the detected time slot, the suitable time slot list is indicated to the client and client selected time slot is received.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for appliance repair scheduling device.

USE - For scheduling of repair services related to various home appliances e.g. dish washer in on-line repair services through internet.

ADVANTAGE - Improves customers service due to dynamic allocation of time slots in cooperation with **service providers** and clients.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart representing time slot allocation process.

pp; 32 DwgNo 6/26

Title Terms: HOME; APPLIANCE; REPAIR; SCHEDULE; METHOD; REPAIR; SERVICE;

FORWARDING; TIME; SLOT; LIST; CLIENT; BASED; DETERMINE; TIME; SLOT;

RESPECT; RECEIVE; APPLIANCE; GEOGRAPHICAL; IDENTIFY

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

9/5/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014807243 \*\*Image available\*\*

WPI Acc No: 2002-627949/200267

XRPX Acc No: N02-496523

**Information system e.g. for Internet, includes a number of user terminals, and a service provider connected to each other via named terminal, and the service provider includes a database**

Patent Assignee: HANSSON M (HANS-I)

Inventor: HANSSON M

Number of Countries: 097 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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Search Performed by Sylvia Keys 17-May-04

WO 200271272 A1 20020912 WO 2002SE241 A 20020218 200267 B

Priority Applications (No Type Date): US 2001269248 P 20010216; SE 2001533 A 20010216

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200271272 A1 E 41 G06F-017/30

Designated States (National): AE AG AL AM AU AZ BA BB BG BR BY BZ CA CH  
CN CO CR CU DM DZ EC ES GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU  
SD SE SG SI SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

Abstract (Basic): WO 200271272 A1

NOVELTY - System for providing information in a computer networks, comprises user terminals and a **service provider** connected to each other via the network. The **service provider** comprises a database. The user terminals are divided into service supplier and service searcher. The service suppliers are arranged to access the **service providers** via the network and based on allocated rights to store information at **service provider** and that the system provides information to the service searcher with respect to personal profile provided with the service searcher containing time and/or event criterion. The time and/or event criterion limit provides the information, to information relevant after **time** and/or event **determined** by the service searcher.

DETAILED DESCRIPTION - INDEPENDENT CLAIM included for the following:

(a) method for supplying information

USE - For Internet.

ADVANTAGE - Accurate information within many different areas exactly matched to the users search profile. A unique possibility for advertisers to place and choose the extent of the information. A very friendly user interface to find what is interesting for each individual. The user can decide which way the information will be delivered: via a web page, email, SMS, WAP and such. The personal **online calendar** can be synchronised with a local calendar program.

DESCRIPTION OF DRAWING(S) - The diagram shows the system

**service provider** (15)

database (16)

pp; 41 DwgNo 1/10

Title Terms: INFORMATION; SYSTEM; NUMBER; USER; TERMINAL; SERVICE; CONNECT; NAME; TERMINAL; SERVICE; DATABASE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/60

File Segment: EPI

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File 8: Ei Compendex(R) 1970-2004/May W2  
 (c) 2004 Elsevier Eng. Info. Inc.  
 File 94: JICST-EPlus 1985-2004/Apr W4  
 (c) 2004 Japan Science and Tech Corp(JST)  
 File 6: NTIS 1964-2004/May W3  
 (c) 2004 NTIS, Intl Cpyrght All Rights Res  
 File 34: SciSearch(R) Cited Ref Sci 1990-2004/May W2  
 (c) 2004 Inst for Sci Info  
 File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 (c) 1998 Inst for Sci Info  
 File 7: Social SciSearch(R) 1972-2004/May W2  
 (c) 2004 Inst for Sci Info  
 ? ds

Set	Items	Description
S1	2742	(ONLINE OR ON()LINE OR AUTOMATE? OR COMPUTERI? OR ELECTRON-IC?) (5N) (SCHEDULER? OR SCHEDULING? OR CALENDAR? OR APPOINTMENT?)
S2	43067	SERVICE() PROVIDER? OR WEBHOST? OR WEB()HOST? OR ISP OR INTERNET() SERVICE() PROVIDER? OR PROVIDER OR PROVIDERS
S3	2554	(RECEIVE? ? OR RECEIVING OR TRANSMIT? OR TRANSMIS? OR SEND? ? OR SENDING) (5N) REQUEST? ?
S4	4764	(TRANSMIT? OR TRANSMIS? OR SEND? ? OR SENDING) (5N) (VERIF? OR CONFIRM? OR ACKNOWLEDG?)
S5	20773	(TRANSMIT? OR TRANSMIS? OR SEND? ? OR SENDING) (5N) (TIME OR TIMES OR DATE OR DATES)
S6	106167	(DETERMIN? OR ASSESS?) (5N) (AVAILABLE? OR AVAILABILITY OR TIME OR TIMES OR DATE OR DATES OR APPOINTMENT?)
S7	542	AU=(TAM, T? OR TAM T? OR MOK, R? OR MOK R? OR LUK, S? OR L-UK S?)
S8	29	S1 AND S2
S9	17	S8 NOT PY>2000
S10	16	RD (unique items)
S11	5	S8 AND (S3 OR S4 OR S5 OR S6)
S12	4	RD (unique items)
S13	69	S1 AND (S3 OR S4 OR S5 OR S6)
S14	65	S13 NOT (S10 OR S12)
S15	51	S14 NOT PY>2000
S16	46	RD (unique items)
S17	0	S7 AND S1

5318955 PY>2000  
S9 17 S8 NOT PY>2000  
? rd  
...completed examining records  
S10 16 RD (unique items)  
? t s10/5/all

10/5/1 (Item 1 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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05688799 E.I. No: EIP00105377549

**Title: Data-centric systems for the plant life cycle**

Author: Joop, Frank

Corporate Source: Intergraph Corp, Huntsville, AL, USA

Conference Title: ISA EXPO/2000 Technical Conference

Conference Location: New Orleans, LA, USA Conference Date:  
19000821-19000824

E.I. Conference No.: 57462

Source: ISA TECH/EXPO Technology Update Conference Proceedings v 403  
2000. p 111-118

Publication Year: 2000

CODEN: ITUPFX ISSN: 1054-0032

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications); T;  
(Theoretical)

Journal Announcement: 0012W1

Abstract: Process plant owners increasingly are understanding the importance of information management for increasing the value of their assets. As in the past, engineering, procurement and construction (EPC) companies continue to adopt software tools to streamline the engineering and construction phase while and not worrying about the hand-off of data and documents to the plant owner. But owners are now demanding data in certain formats or systems to enable them to better manage facilities and optimize production during the life of the plant And, plant owners are playing a more active role early in the conceptual phase of design. This shift is putting pressure on EPCs to re-think work processes, software tools and integration strategies. Solution suppliers such as Intergraph are responding to the combined needs of both EPCs and plant owners by developing new technology to provide flexible software tools to accommodate different EPC workflows and to facilitate data hand off to owners. Solution **providers** are also developing new technology that allows owners to take full advantage of this data in operations and maintenance throughout the plant life cycle. Both EPCs and plant owners are devoting more resources to front-end engineering and design (FEED) to pull design decisions forward. This 'front-end loading' enables reduced capital expenditure, higher facility quality and operability, and decreases crucial time-to-market to help make investments pay off earlier. This paper discusses aspects of creating data that can be used during the plant life cycle and moving engineering decisions forward. (Author abstract)

Descriptors: Just in time production; Computer integrated manufacturing; Process engineering; Life cycle; Knowledge based systems; Decision support systems; Purchasing; Strategic planning; **Scheduling ; Electronic data interchange**

Identifiers: Data-centric systems; Engineering enterprise management

Classification Codes:

913.4.2 (Computer Aided Manufacturing); 723.4.1 (Expert Systems)

913.2 (Production Control); 723.5 (Computer Applications); 913.4 (Manufacturing); 913.1 (Production Engineering); 723.4 (Artificial Intelligence); 912.2 (Management)

913 (Production Planning & Control); 723 (Computer Software); 912

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(Industrial Engineering & Management)

91 (ENGINEERING MANAGEMENT); 72 (COMPUTERS & DATA PROCESSING)

10/5/2 (Item 2 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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04928641 E.I. No: EIP98024045087

**Title: Scheduling information dissemination by satellite broadcast**

Author: Wellington, Robert J.

Corporate Source: Computing Devices Int, Bloomington, MN, USA

Conference Title: Proceedings of the 1997 MILCOM Conference. Part 2 (of 3)

Conference Location: Monterey, CA, USA Conference Date: 19971103-19971105

Sponsor: IEEE

E.I. Conference No.: 47731

Source: Proceedings - IEEE Military Communications Conference MILCOM v 2 1997. IEEE, Piscataway, NJ, USA, 97CB36134. p 623-627

Publication Year: 1997

CODEN: PMICET

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 9804W1

**Abstract:** One of the potential capabilities of the Global Broadcast Service (GBS) is that information **providers** may engage GBS in dialogues to reserve broadcast resources for application data dissemination. This paper describes one approach for automating this interaction by adapting commercial-off-the-shelf (COTS) packages for scheduling computing jobs. These COTS tools implement processor assignment policies and provide job queue management in heterogeneous processing environments. We discuss how to understand the information dissemination problem in terms of services requiring the assignment of processing resources. A broadcast schedule can then be planned by a system that makes job scheduling decisions based on anticipated bandwidth utilization. The Quality of Service (QoS) parameters associated with each broadcast request provide the prior knowledge about resource requirements (e.g., connectivity, bandwidth, latencies) needed to automatically create a broadcast schedule. An important design feature involves the capability to reschedule future activities based on feedback about the actual performance of jobs in progress. Cooperating scheduling frameworks can manage information distribution services which must schedule access to broadcast services. This approach implements policies and priorities for information management and GBS broadcast management. The result is an **automated scheduling** mechanism that manages services which disseminate information by satellite broadcast. (Author abstract) 11 Refs.

**Descriptors:** \*Information dissemination; Satellite communication systems; Information services; Broadcasting; Resource allocation

**Identifiers:** Global broadcast service (GBS); Satellite broadcast

**Classification Codes:**

655.2.1 (Communication Satellites)

903.2 (Information Dissemination); 655.2 (Satellites); 903.4 (Information Services); 912.2 (Management)

903 (Information Science); 655 (Spacecraft); 716 (Radar, Radio & TV Electronic Equipment); 912 (Industrial Engineering & Management)

90 (GENERAL ENGINEERING); 65 (AEROSPACE ENGINEERING); 71 (ELECTRONICS & COMMUNICATIONS); 91 (ENGINEERING MANAGEMENT)

10/5/3 (Item 3 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

Search Performed by Sylvia Keys 17-May-04

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04087588 E.I. No: EIP95022592584

**Title: Real-time communication services in a DQDB network**

Author: Carmo, Rosa L.R.; Vasques, Francisco; Juanole, Guy

Corporate Source: Cent Natl de la Recherche Scientifique, Toulouse, Fr

Conference Title: Proceedings of the 1994 IEEE Real-Time Systems Symposium

Conference Location: San Juan, PR Conference Date: 19941207-19941209

Sponsor: IEEE

E.I. Conference No.: 42446

Source: Proceedings - Real-Time Systems Symposium 1994. IEEE, Piscataway, NJ, USA. p 249-258

Publication Year: 1994

CODEN: PRSYEA

Language: English

Document Type: CA; (Conference Article) Treatment: G; (General Review); T; (Theoretical)

Journal Announcement: 9505W1

Abstract: This paper addresses the problem of transmitting real-time periodic traffic in a DQDB network. In a DQDB network, connection-oriented isochronous services use the Pre-Arbitrated (PA) access. The standard specifies that isochronous connections must have guaranteed periodic bandwidth but mechanisms to provide it, such as the slot allocation scheme, are not described. We propose a Real-Time **Service Provider** (RTSP) based on the use of the PA access. The RTSP consists of an off-line centralized **scheduling** algorithm and an **on - line** mode change algorithm which allows to take into account load changes. Means are also provided to guarantee a minimum fairness level for the asynchronous traffic. (Author abstract) 10 Refs.

Descriptors: \*Real time systems; Telecommunication services; Telecommunication traffic; Data acquisition; Resource allocation; Bandwidth; Frequency allocation; Metropolitan area networks

Identifiers: Real time communication services; Pre-arbitrated access; Real time **service provider**; Greatest common divisor; Medium access control protocol

Classification Codes:

722.4 (Digital Computers & Systems); 716.1 (Information & Communication Theory); 723.2 (Data Processing); 722.3 (Data Communication, Equipment & Techniques); 723.1 (Computer Programming)

722 (Computer Hardware); 716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS)

**10/5/4 (Item 1 from file: 6)**

DIALOG(R)File 6:NTIS

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2170163 NTIS Accession Number: PB2000-106739/XAB

**Bus Transit Operations Control: Review and an Experiment Involving Tri-Met's Automated Bus Dispatching System**

(Final technical rept)

Strathman, J. G. ; Kimpel, T. J. ; Dueker, K. J.

TransNow, Seattle, WA.

Corp. Source Codes: 097834000;

Sponsor: Portland State Univ., OR. Center for Urban Studies.; Department of Transportation, Washington, DC. University Transportation Centers Program.; Tri-County Metropolitan Transportation District of Oregon, Portland.

Report No.: TNW-2000-02

Search Performed by Sylvia Keys 17-May-04

May 2000 48p

Languages: English

Journal Announcement: USGRDR0021

Prepared in cooperation with Portland State Univ., OR. Center for Urban Studies. Sponsored by Department of Transportation, Washington, DC. University Transportation Centers Program. and Tri-County Metropolitan Transportation District of Oregon, Portland.

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NTIS Prices: PC A04/MF A01

Country of Publication: United States

Contract No.: DTOS88-G-0010

This report has two overall purposes. First, it provides a review of operations control principles and practices reported in the literature. Second, it reports the results of an operations control experiment whose objective was to maintain headways, or the time separation between buses on a route. The experiment was developed to explore a possible application of the automated Bus Dispatching System (BDS) recently implemented by Tri-Met, the transit **provider** for the Portland, OR metropolitan region. The main components of Tri-Met's BDS are as follows: automatic vehicle location (AVL) based upon global position system (GPS) technology, supplemented by dead reckoning sensors; voice and data communication within a pre-existing mobile radio system; on-board computer and a control head displaying schedule adherence to operators, detection and reporting of schedule and route deviations to dispatchers, and two-way, pre-programmed messaging between operators and dispatchers; automatic passenger counter (APC) technology; computer-aided dispatch (CAD) center. The BDS recovers very detailed operating information in real-time, and thus enables the use of a variety of control actions that would potentially yield substantial improvements in service reliability.

Descriptors: Dispatching systems; \*Buses; \*Computerized dispatching systems; \*Headways; Literature review; Mass transportation; Scheduling; Public transportation; Passenger transportation; Global positioning systems; Vehicle location; **Electronic** monitoring systems; Communication systems; **Computerized scheduling**

Identifiers: \*Bus Dispatching System; Automatic vehicle location; Automatic passenger counter; NTISDOTFHA

Section Headings: 85H (Transportation--Road Transportation); 91B (Urban and Regional Technology and Development--Transportation and Traffic Planning); 43G (Problem Solving Information for State and Local Governments--Transportation)

10/5/5 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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2099377 NTIS Accession Number: DE98003797/XAB

**Ancillary-service details: Dynamic scheduling**

Hirst, E. ; Kirby, B.

Oak Ridge National Lab., TN.

Corp. Source Codes: 888888888

Sponsor: Department of Energy, Washington, DC.

Report No.: ORNL/CON-438

Jan 97 44p

Languages: English

Journal Announcement: GRAI9901; ERA9840

Sponsored by Department of Energy, Washington, DC.

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NTIS Prices: PC A04/MF A01

Country of Publication: United States

Contract No.: AC05-96OR22464

Dynamic **scheduling** (DS) is the **electronic** transfer from one control area to another of the time-varying electricity consumption associated with a load or the time-varying electricity production associated with a generator. Although electric utilities have been using this technique for at least two decades, its use is growing in popularity and importance. This growth is a consequence of the major changes under way in US bulk-power markets, in particular efforts to unbundle generation from transmission and to increase competition among generation **providers**. DS can promote competition and increase choices. It allows consumers to purchase certain services from entities outside their physical-host area and it allows generators to sell certain services to entities other than their physical host. These services include regulation (following minute-to-minute variations in load) and operating reserves, among others. Such an increase in the number of possible suppliers and customers should encourage innovation and reduce the costs and prices of providing electricity services. The purpose of the project reported here was to collect and analyze data on utility experiences with DS. Chapter 2 provides additional details and examples of the definitions of DS. Chapter 3 explains why DS might be an attractive service that customers and generators, as well as transmission **providers**, might want to use. Chapter 4 presents some of the many current DS examples the authors uncovered in their interviews. Chapter 5 discusses the costs and cost-effectiveness of DS. Chapter 6 explains what they believe can and cannot be electronically moved from one control area to another, primarily in terms of the six ancillary services that FERC defined in Order 888. Chapter 7 discusses the need for additional research on DS.

Descriptors: \*Electric Utilities; \*Load Analysis; Load Management; Power Generation; Power Systems

Identifiers: EDB/240100; NTISDE

Section Headings: 97E (Energy--Electric Power Transmission)

10/5/6 (Item 3 from file: 6)

DIALOG(R)File 6:NTIS

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2085831 NTIS Accession Number: AD-A346 941/8/XAB

**Patient Access Study**

(Final rept)

Dolfini-Reed, M. ; Shia, D.

Center for Naval Analyses, Alexandria, VA.

Corp. Source Codes: 056346000; 077270

Report No.: CAB-98-8

Mar 98 49p

Languages: English

Journal Announcement: GRAI9819

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NTIS Prices: PC A04/MF A01

Country of Publication: United States

Contract No.: N00014-91-C-0002; R0148

The Assistant Chief for Health Care operations (BUMED 01) asked CNA to develop a method that Navy medicine can use to determine whether it is

Search Performed by Sylvia Keys 17-May-04



meeting Tricare access standards, especially for scheduling appointments. The report found that the Composite Health Care System (CHCS) currently gives local military medicine **providers** the ability to track patient access to care, but that many **providers** are grappling with the same concerns and issues. To reduce redundancy, the report recommends that Navy medicine adopt standard guidelines for appointing and tracking access based on the experience of the facilities pioneering Tricare. It specifically recommends that Navy medicine develop system-wide appointing guidelines that increase the use of central appointing, standardize **appointment** types, make specialty referrals **electronic**, and develop specialty referral guidelines.

Descriptors: \*Medical services; Military facilities; Health; Navy; Efficiency; Military medicine; Patients

Identifiers: Health care issues; Tricare; NTISDODXA

Section Headings: 44N (Health Care--Health Care Utilization); 57E (Medicine and Biology--Clinical Medicine); 74GE (Military Sciences--General)

10/5/7 (Item 4 from file: 6)

DIALOG(R) File 6:NTIS

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1724683 NTIS Accession Number: AD-A261 753/8

**Optimize the Patient Appointment System: At Dewitt Army Community Hospital**

(Final rept. Jul 91-Jul 92)

Allgood, S. J.

Academy of Health Sciences (Army), Fort Sam Houston, TX. Health Care Administration.

Corp. Source Codes: 054881004; 419158

Report No.: HCA9-92

15 May 92 118p

Languages: English Document Type: Thesis

Journal Announcement: GRAI9314

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A06/MF A02

Country of Publication: United States

Central appointment systems can be an effective and efficient mechanism for ensuring that the health care **provider**, the patient, and the medical records arrive at the right time for a patient - **provider** encounter. These systems are flexible enough to allow **providers** to control their own schedules, expedite patients' appointments, and improve the administration's planning effort by providing summary reports on staff activity and other information that can be used to ensure appropriate allocation of resources (Herpock, 1980). DeWitt Army Community Hospital (DACH) has an **automated appointment** system that was fielded in 1989. The purpose of this study is to determine how the patient appointment system at DACH currently functions, compare this with how the system was designed to function, and determine the optimal functioning level for the appointment system. U.S. Army Health Services Command (HSC) Pamphlet 40-7-1, Medical Services Patient Appointment System, was used as a baseline for the latter parameter. Appointment systems, Access.

Descriptors: \*Hospitals; \*Functional analysis; \*Scheduling; \*Management information systems; Allocations; Functions; Medical services; Patients; Planning; Records; Health care facilities; Automation; Army facilities; Theses

Identifiers: Medical records; Central appointment systems; NTISDODXA  
Section Headings: 44U (Health Care--Health Care Delivery Organization and Management); 44T (Health Care--Data and Information Systems)

10/5/8 (Item 5 from file: 6)

DIALOG(R) File 6:NTIS

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0763722 NTIS Accession Number: PB-295 021/0/XAB

**User's Guide for the Interactive Scheduling Program: Preliminary Calendar Version**

(Operational handbook Sep 76-Sep 77)

Downey, P. J.

Transportation Systems Center, Cambridge, MA.

Sponsor: Urban Mass Transportation Administration, Washington, DC.

Report No.: DOT-TSC-UMTA-77-43; UMTA-MA-06-0074-78-1

Aug 78 30p

Languages: English

Journal Announcement: GRAI7917

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

Contract No.: DOT-MA-06-0074

The Office of Transportation Management of the Urban Mass Transportation Administration (UMTA), in conjunction with the Transportation Systems Center (TSC), designed and developed the Interactive Scheduling Program (ISP) to assist rail-transit operators in the scheduling of preventive maintenance. The ISP was first applied to the scheduling of warranty inspections for the new Light-Rail Vehicles (LRV's) acquired by the Massachusetts Bay Transportation Authority (MBTA). The warranty for these vehicles covers a 2-year period, and requires scheduled inspections every 45 days. While the ISP is designed for the LRV's, its scope could easily be broadened to aid any property with equipment whose maintenance is conducted on a calendar basis. This document describes the user's guide for the preliminary calendar version of an ISP. A computerized scheduling system is described that is designed to operate on a real-time or on-line basis. By utilizing a set of program commands, the user is allowed to enter and extract data relative to vehicle warranty scheduling. A scheduling algorithm was developed for this program which incorporates a variable work window whose purpose is to minimize fluctuations in the daily workload. This minimization results in less required manpower and overtime, therefore resulting in a reduced maintenance cost. The program operates on a five consecutive year span for the years between 1976 and 2000.

Descriptors: \*Rapid transit railways; \*Preventive maintenance; \*Scheduling; Data acquisition; Real time operations; Computer programming; User needs; Urban transportation

Identifiers: Fortran 4 programming language; NTISDOTUMT

Section Headings: 85C (Transportation--Metropolitan Rail Transportation); 85I (Transportation--Railroad Transportation); 91B (Urban and Regional Technology and Development--Transportation and Traffic Planning)

10/5/9 (Item 6 from file: 6)

DIALOG(R) File 6:NTIS

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0608780 NTIS Accession Number: PB-262 798/2/XAB

**Information Commerce in an Ambulatory Care Clinic: Computer Technology in Ambulatory Health Care**

(Interim rept. Jun 74-Apr 76)

Massey, L. D.

Bolt Beranek and Newman, Inc., Cambridge, Mass.

Corp. Source Codes: 060100

Sponsor: National Center for Health Services Research, Rockville, Md.

Report No.: BBN-2925; NCHSR-77/47

8 Nov 74 41p

Journal Announcement: GRAI7708

See also PB-262 797.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

Contract No.: PHS-HRA-106-74-180

The brief review of the state-of-the-art in off-the-shelf computer technologies as applied to the ambulatory health care setting discusses characteristics of the following categories of computer applications: (1) Financial Systems: (a) patient and third party billing, (b) practice financial and enrollment management (fee-for-service, prepaid, or both); (2) Record Systems: (a) patient problem lists and index, (b) abbreviated (on - line) medical records; (3) Scheduling Systems: (a) patient scheduling and planned record retrieval, (b) resource (providers and facilities) scheduling. To the above list of core services a number of other applications discussed are concerned more with direct patient management. These include drug interactions and reactions, clinical research data base, protocols, clinical laboratory management systems, and automated ECG analysis.

Descriptors: \*Ambulatory health care; \*Data processing; \*Information systems; Auditing; Reviews; Health care delivery systems; Medical records; Financial management; Scheduling; Drugs; Medical education; Electrocardiograms; Quality assurance

Identifiers: \*Medical information systems; Protocols; NTISHRAHSR

Section Headings: 44T (Health Care--Data and Information Systems); 88B (Library and Information Sciences--Information Systems)

**10/5/10 (Item 1 from file: 34)**

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2004 Inst for Sci Info. All rts. reserv.

10078678 Genuine Article#: 481FQ Number of References: 20

**Title: Teleradiology as a foundation for an enterprise-wide health care delivery system**

Author(s): Dionisio JDN (REPRINT) ; Taira RK; Sinha U; Johnson DB; Dai BY; Tashima GH; Blythe S; Johnson R; Kangarloo H

Corporate Source: Univ Calif Los Angeles, Dept Radiol Sci, 924 Westwood Blvd, Suite 420/Los Angeles//CA/90024 (REPRINT); Univ Calif Los Angeles, Dept Radiol Sci, Los Angeles//CA/90024; Univ Calif Los Angeles, Dept Comp Sci, Los Angeles//CA/90024; Univ Calif Los Angeles, Dept Family Med, Los Angeles//CA/90024; Univ Washington, Childrens Hosp, Dept Radiol, Seattle//WA/98195; Univ Washington, Reg Med Ctr, Seattle//WA/98195; Harris Family Med Ctr, Melbourne//FL/

Journal: RADIOGRAPHICS, 2000, V20, N4 (JUL-AUG), P1137-1150

ISSN: 0271-5333 Publication date: 20000700

Publisher: RADIOLOGICAL SOC NORTH AMERICA, 820 JORIE BLVD, OAK BROOK, IL 60523 USA

Language: English Document Type: ARTICLE

Search Performed by Sylvia Keys 17-May-04

Geographic Location: USA

Journal Subject Category: RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING

Abstract: An effective, integrated telemedicine system has been developed that allows (a) teleconsultation between local primary health care **providers** (primary care physicians and general radiologists) and remote imaging subspecialists and (b) active patient participation related to his or her medical condition and patient education. The initial stage of system development was a traditional teleradiology consultation service between general radiologists and specialists; this established system was expanded to include primary care physicians and patients. The system was developed by using a well-defined process model, resulting in three integrated modules: a patient module, a primary health care **provider** module, and a specialist module. A middle agent layer enables tailoring and customization of the modules for each specific user type. Implementation by using Java and the Common Object Request Broker Architecture standard facilitates platform independence and interoperability. The system supports (a) teleconsultation between a local primary health care **provider** and an imaging subspecialist regardless of geographic location and (b) patient education and **online scheduling**. The developed system can potentially form a foundation for an enterprise-wide health care delivery system. In such a system, the role of radiologist specialists is enhanced from that of a diagnostician to the management of a patient's process of care.

Descriptors--Author Keywords: computers, diagnostic aid ; computers, educational aid ; teleradiology

Identifiers--KeyWord Plus(R): E-MAIL; INFORMATION; SECURITY

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10/5/11 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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09197771 Genuine Article#: 378DB Number of References: 20

**Title: The impact of outreach efforts in reaching underimmunized children in a Medicaid managed care practice**

Author(s): Vivier PM (REPRINT) ; Alario AJ; OHaire C; Dansereau LM; Jakum EB; Peter G

Corporate Source: RHODE ISL HOSP,DEPT PEDIAT, 593 EDDY  
ST/PROVIDENCE//RI/02903 (REPRINT); BROWN UNIV,DEPT

Search Performed by Sylvia Keys 17-May-04

PEDIAT/PROVIDENCE//RI/02912; BROWN UNIV,DEPT COMMUNITY  
HLTH/PROVIDENCE//RI/02912

Journal: ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE, 2000, V154, N12 (DEC  
) , P1243-1247

ISSN: 1072-4710 Publication date: 20001200

Publisher: AMER MEDICAL ASSOC, 515 N STATE ST, CHICAGO, IL 60610

Language: English Document Type: ARTICLE

Geographic Location: USA

Subfile: CC LIFE--Current Contents, Life Sciences; CC CLIN--Current  
Contents, Clinical Medicine;

Journal Subject Category: PEDIATRICS

Abstract: Background: National immunization standards call for all primary  
care **providers** to implement immunization tracking systems that  
include contacting families when children are overdue for vaccines. The  
restructuring of Medicaid systems toward managed care models with a  
greater emphasis on having defined medical homes for children presents  
opportunities to expand the use of immunization recall systems among  
low-income children.

Objective: To assess the impact of telephone, mail, and a combined  
approach to reaching underimmunized children enrolled in a  
hospital-based Medicaid managed care practice.

Design and Methods: All underimmunized children younger than 6  
years who had been continuously enrolled in the hospital-based Medicaid  
managed care practice for 3 months were randomly assigned to 1 of 4  
groups: (1) control group with no intervention, (2) telephone reminder  
group, (3) mail reminder group, or (4) sequential mail/telephone  
reminder group. After a 10-week follow-up, medical records and the  
hospital's **computerized appointment scheduling** system were  
reviewed to determine the effect of the outreach effort on appointments  
made, visits attended, immunizations received, and immunization status.

Results: Outreach efforts had a positive impact on the proportion  
of children immunized and on the resulting immunization coverage rates.  
The percentage of children receiving immunizations during the 10-week  
follow-up was 4.2% (3/71) for the control group, 16.7% (10/ 60) for the  
telephone reminder group, 19.0% (12/63) for the mail reminder group,  
and 25.7% (18/70) for the sequential mail/telephone reminder group. The  
percentage of children up-to-date for all immunizations at the end of  
the 10-week follow-up was 2.8% (2/71) for the control group, 13.3%  
(8/60) for the telephone reminder group, 14.3% (9/63) for the mail  
reminder group, and 17.1% (12/70) for the sequential mail/telephone  
reminder group. Forty-eight children were seen during follow-up without  
receiving all indicated vaccines.

Conclusions: Outreach efforts were modestly successful in reaching  
underimmunized children in a Medicaid managed care practice, although  
the lack of accurate information on telephone numbers and addresses  
limited the effectiveness. Missed opportunities for immunization also  
reduced the impact of outreach on immunization coverage.

Identifiers--KeyWord Plus(R): INFLUENZA VACCINATION; PRESCHOOL-CHILDREN;  
IMMUNIZATION; REMINDERS; IMPROVE; TELEPHONE; SYSTEM; TRIAL

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10/5/12 (Item 3 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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05922190 Genuine Article#: XH667 Number of References: 93

**Title: Electronic communication with patients - Evaluation of distance medicine technology**

Author(s): Balas EA (REPRINT) ; Jaffrey F; Kuperman GJ; Boren SA; Brown GD; Pincirolti F; Mitchell JA

Corporate Source: UNIV MISSOURI, SCH MED, HLTH SERV MANAGEMENT PROGRAM, 324 CLARK HALL/COLUMBIA//MO/65211 (REPRINT); UNIV MISSOURI, SCH MED, INTEGRATED TECHNOL SERV/COLUMBIA//MO/65211; BRIGHAM & WOMENS HOSP, /BOSTON//MA/02115; POLITECN MILAN, /I-20133 MILAN//ITALY/

Journal: JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, 1997, V278, N2 (JUL 9), P152-159

ISSN: 0098-7484 Publication date: 19970709

Publisher: AMER MEDICAL ASSOC, 515 N STATE ST, CHICAGO, IL 60610

Language: English Document Type: REVIEW

Geographic Location: USA; ITALY

Subfile: CC LIFE--Current Contents, Life Sciences; CC CLIN--Current Contents, Clinical Medicine;

Journal Subject Category: MEDICINE, GENERAL & INTERNAL

**Abstract:** Objective.-To evaluate controlled evidence on the efficacy of distance medicine technologies in clinical practice and health care outcome.

Data Sources.-Systematic electronic database and manual searches (1966-1996) were conducted to identify clinical trial reports on distance medicine applications.

Study Selection.-Three eligibility criteria were applied: prospective, contemporaneously controlled clinical trial with random assignment of the intervention; electronic distance technology application in the intervention group and no similar intervention in the control group; and measurement of the intervention effect on process or outcome of care.

Data Extraction.-Data were abstracted by independent reviewers using a standardized abstraction form and the quality of methodology was scored. Distance technology applications were described in 6 categories. computerized communication, telephone follow-up and counseling, telephone reminders, interactive telephone systems, after-hours telephone access, and telephone screening.

Data Synthesis.-Of 80 eligible clinical trials, 61 (76%) analyzed **provider** -initiated communication with patients and 50 (63%) reported positive outcome, improved performance, or significant benefits,

Search Performed by Sylvia Keys 17-May-04

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10/5/13 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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05519694 Genuine Article#: WD868 Number of References: 17

Title: Assessment of preventive health care: Design considerations

Author(s): Hershey CO (REPRINT) ; Karuza J

Search Performed by Sylvia Keys 17-May-04

Corporate Source: ERIE CTY MED CTR & LABS, DEPT MED/BUFFALO//NY/14215  
(REPRINT); SUNY BUFFALO, DEPT MED/BUFFALO//NY/14215; SUNY  
BUFFALO, PRIMARY CARE RESOURCE CTR/BUFFALO//NY/14215  
Journal: PREVENTIVE MEDICINE, 1997, V26, N1 (JAN-FEB), P59-67  
ISSN: 0091-7435 Publication date: 19970100  
Publisher: ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 525 B ST, STE 1900,  
SAN DIEGO, CA 92101-4495  
Language: English Document Type: ARTICLE  
Geographic Location: USA  
Subfile: CC CLIN--Current Contents, Clinical Medicine;  
Journal Subject Category: PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH;  
MEDICINE, GENERAL & INTERNAL  
Abstract: Objective. To design an instrument to assess the performance of a  
clinic in the delivery of preventive health services to a general  
population.

Methods. The study utilized a chart review of services delivered, abstraction of data from electronic databases, and a standardized **provider** assessment of each eligible patient. The study was conducted in a primary care clinic staffed primarily by internal medicine residents in an urban academic medical center. Patients who were receiving continuity care in the clinic and who were scheduled for an appointment during the 2-week study period were eligible for inclusion. Patients were identified prospectively from the appointment schedule. Charts were reviewed for the delivery of preventive health services prior to the patient's visit. Assessment forms were provided to the primary **providers** for review and completion. Demographic and **appointment** information was **electronically** abstracted from current databases.

Results. The rate at which services were provided varied considerably by service and over time. The reasons for nondelivery included disagreement with guidelines, patient resistance/refusal, and lack of priority.

Conclusions. It should be possible to assess a clinic's performance over a range of services over its entire population over time. There may be legitimate reasons for services not being provided to a sizable proportion of the population. These issues are complex and require sensitive detailed investigation. (C) 1997 Academic Press.

Descriptors--Author Keywords: preventive health ; immunizations ; cancer screening

Identifiers--KeyWord Plus(R): GUIDELINES; SERVICES; RECOMMENDATIONS; PERFORMANCE

Research Fronts: 95-0641 001 (MEDICAL LANGUAGE PROCESSING; CLINICAL REPORTING SYSTEMS; KNOWLEDGE REPRESENTATION; DRUG ERRORS; AUTOMATIC ENCODING; IMPROVING LABORATORY USE)

95-1460 001 (CLINICAL-PRACTICE GUIDELINES; PEDIATRIC ASTHMA CARE IN US EMERGENCY DEPARTMENTS; EFFECTIVE IMPLEMENTATION)

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10/5/14 (Item 5 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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03427082 Genuine Article#: ND613 Number of References: 0  
(NO REFS KEYED)

**Title: A COMPUTERIZED INTERVENTION TO IMPROVE TIMING OF OUTPATIENT  
FOLLOW-UP - A MULTICENTER RANDOMIZED TRIAL IN PATIENTS TREATED WITH  
WARFARIN**

Author(s): FIHN SD; MCDONELL MB; VERMES D; HENIKOFF JG; MARTIN DC; CALLAHAN  
CM; KENT DL; WHITE RH; KOHLER E; ROSEN N; REISS J; BANAS J; PASKO M;  
STERN M; HUTCHINSON R; COLEMAN RW; YEE F; BECKER DM; BUNCHER P;  
SPENCERBOPP J; KRONGAARDDDEMONG L; WALKER F

Corporate Source: VET ADM MED CTR, GEN INTERNAL MED SECT, 111M, 1660S  
COLUMBIAN WAY/SEATTLE//WA/98108

Journal: JOURNAL OF GENERAL INTERNAL MEDICINE, 1994, V9, N3 (MAR), P131-139  
ISSN: 0884-8734

Language: ENGLISH Document Type: ARTICLE

Geographic Location: USA

Subfile: SciSearch; CC CLIN--Current Contents, Clinical Medicine

Journal Subject Category: MEDICINE, GENERAL & INTERNAL

Abstract: Objective: To evaluate a **computerized scheduling** model that  
employs nonlinear optimization to recommend optimal follow-up intervals  
for patients taking warfarin.

Design: Randomized trial.

Setting: 5 anticoagulation clinics.

Patients/participants: 620 patients expected to receive warfarin  
for greater-than-or-equal-to 6 weeks.

Interventions: Computer-generated recommendations for scheduling  
the next visit were presented to or withheld from practitioners.

Measurements and main results: The main outcome measures were the  
follow-up interval scheduled by the **provider**, the interval at which  
the patient actually returned to clinic, and the quality of  
anticoagulation control (computed as the absolute difference between  
the measured and target prothrombin times [PTRs] or international  
normalized ratios [INRs]). Follow-up intervals scheduled for the  
patients whose practitioners received computer-generated  
recommendations were significantly longer than those for control  
patients (mean, 4.4 vs 3.5 weeks,  $p < 0.001$ ), despite the fact that the  
practitioners modified the suggested return interval by  $> 1$  week on 40%  
of the visits. The interval at which the intervention group actually  
returned to clinic was also longer (mean, 4.4 vs 4.1 weeks,  $p < 0.05$ ),  
even though the control patients tended to return at longer intervals  
than were scheduled by their practitioners. Control of anticoagulation  
was nearly the same among experimental and control patients.  
Life-threatening complications occurred in the care of three  
experimental patients-and one control patient, while other serious  
complications occurred in the care of 16 experimental patients and 17  
control patients.

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Conclusions: Recommendations based on nonlinear optimization prompted clinicians to schedule less frequent follow-up for patients taking warfarin, with no deterioration in anticoagulation control. This approach to scheduling can potentially reduce utilization while maintaining quality of care for patients who require long-term monitoring.

Descriptors--Author Keywords: PATIENT ; WARFARIN ; FOLLOW-UP ; MONITORING ; SCHEDULING ; COMPUTERS

10/5/15 (Item 6 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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02924704 Genuine Article#: MQ677 Number of References: 8

**Title: EXPERIENCES OF 1ST WAVE GENERAL-PRACTICE FUNDHOLDERS IN SOUTH EAST THAMES REGIONAL HEALTH AUTHORITY**

Author(s): CORNEY R

Corporate Source: UNIV GREENWICH, SCH SOC SCI, BRONTE HALL/LONDON SE9  
2HB//ENGLAND//; UNIV KENT, CTR HLTH SERV STUDIES/CANTERBURY CT2  
7NZ/KENT/ENGLAND/

Journal: BRITISH JOURNAL OF GENERAL PRACTICE, 1994, V44, N378 (JAN), P34-37  
ISSN: 0035-8797

Language: ENGLISH Document Type: ARTICLE

Geographic Location: ENGLAND

Subfile: SciSearch; CC CLIN--Current Contents, Clinical Medicine

Journal Subject Category: MEDICINE, GENERAL & INTERNAL

Abstract: Background The purchasing power given to general practitioner fundholders has important longterm implications.

Aim. A study was undertaken to investigate the experiences of a group of fundholders.

Method. All 15 first wave fundholders in South East Thames Regional Health Authority were sent a questionnaire asking about their experiences towards the end of the first year of fundholding.

Results. The practices varied considerably in the degree of changes made. Nine had developed consultant outreach clinics in the surgery and four had made major changes in their use of **providers**. Advantages mentioned by respondents were the outreach consultant clinics, increased practice facilities, increased **provider** responsiveness, greater direct access and facilities for investigations, reduced waiting times for outpatient **appointments**, increased **computerization** and a new awareness of practice and **provider** activity. A number of difficulties were also mentioned, including **provider** resistance and time spent on administration.

Conclusion. It is important to view these changes in the context of other National Health Service and general practice reforms: practice based innovations are not unique to fundholding and other initiatives could have brought about these changes. In addition, developments such as outreach consultant clinics which may benefit the practice still need to be evaluated in terms of cost effectiveness and health outcomes, as well as their impact on services elsewhere.

Descriptors--Author Keywords: GP BUDGET HOLDER ; HEALTH SERVICE REFORMS ; PRACTICE FINANCE ; REFERRAL RATES ; GP CLINICS ; GP-HOSPITAL RELATIONSHIP

Research Fronts: 92-7996 001 (GENERAL-PRACTICE PSYCHIATRIC CLINICS; PRIMARY CARE; IMPROVING MENTAL-HEALTH)

Search Performed by Sylvia Keys 17-May-04

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10/5/16 (Item 1 from file: 7)

DIALOG(R)File 7:Social SciSearch(R)

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03482976 GENUINE ARTICLE#: 324DC NUMBER OF REFERENCES: 0

**TITLE: Meeting room www.**

AUTHOR(S): Ellis RK

JOURNAL: TRAINING & DEVELOPMENT, 2000, V54, N6 (JUN), P44-&

PUBLISHER: AMER SOC TRAINING DEVELOPMENT, 1640 KING ST, BOX 1443,  
ALEXANDRIA, VA 22313-2043

LANGUAGE: English DOCUMENT TYPE: Article

SUBFILE: CC SOCS--Current Contents, Social & Behavioral Sciences

JOURNAL SUBJECT CATEGORY: PSYCHOLOGY, APPLIED; BUSINESS

ABSTRACT: As Ellis notes, there are dozens of applications and tools on the market that purport to be the solution to all of your company's meeting woes. Further, there are many different ways to use those tools, such as doing your own hosting or using an application **provider** .

Ellis lists these basic features common to almost all services:

application sharing

document sharing and editing

presentation viewing

instant messaging

real-time chat

polls and surveys

whiteboards

integrated telephony services

group **scheduling** and **calendars** .

To select an **online** meeting solution, Ellis advises you to consider these issues:

Search Performed by Sylvia Keys 17-May-04

number of participants

hosting: outsourced or in-house

security

platform versatility

technical support

ease of set-up

cost.

The article concludes with a chart listing six online meeting options, with information about features, system requirements, and costs.

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12/5/1 (Item 1 from file: 8)  
DIALOG(R)File 8:EI Compendex(R)  
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04087588 E.I. No: EIP95022592584

**Title: Real-time communication services in a DQDB network**

Author: Carmo, Rosa L.R.; Vasques, Francisco; Juanole, Guy

Corporate Source: Cent Natl de la Recherche Scientifique, Toulouse, Fr

Conference Title: Proceedings of the 1994 IEEE Real-Time Systems Symposium

Conference Location: San Juan, PR Conference Date: 19941207-19941209

Sponsor: IEEE

E.I. Conference No.: 42446

Source: Proceedings - Real-Time Systems Symposium 1994. IEEE, Piscataway, NJ, USA. p 249-258

Publication Year: 1994

CODEN: PRSYEA

Language: English

Document Type: CA; (Conference Article) Treatment: G; (General Review); T; (Theoretical)

Journal Announcement: 9505W1

Abstract: This paper addresses the problem of **transmitting** real- time periodic traffic in a DQDB network. In a DQDB network, connection-oriented isochronous services use the Pre-Arbitrated (PA) access. The standard specifies that isochronous connections must have guaranteed periodic bandwidth but mechanisms to provide it, such as the slot allocation scheme, are not described. We propose a Real-Time **Service Provider** (RTSP) based on the use of the PA access. The RTSP consists of an off-line centralized **scheduling** algorithm and an **on - line** mode change algorithm which allows to take into account load changes. Means are also provided to guarantee a minimum fairness level for the asynchronous traffic. (Author abstract) 10 Refs.

Descriptors: \*Real time systems; Telecommunication services; Telecommunication traffic; Data acquisition; Resource allocation; Bandwidth ; Frequency allocation; Metropolitan area networks

Identifiers: Real time communication services; Pre-arbitrated access; Real time **service provider** ; Greatest common divisor; Medium access control protocol

Classification Codes:

722.4 (Digital Computers & Systems); 716.1 (Information & Communication Theory); 723.2 (Data Processing); 722.3 (Data Communication, Equipment & Techniques); 723.1 (Computer Programming)

722 (Computer Hardware); 716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS)

12/5/2 (Item 1 from file: 6)  
DIALOG(R)File 6:NTIS  
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1724683 NTIS Accession Number: AD-A261 753/8

**Optimize the Patient Appointment System: At Dewitt Army Community Hospital**

(Final rept. Jul 91-Jul 92)

Allgood, S. J.

Academy of Health Sciences (Army), Fort Sam Houston, TX. Health Care Administration.

Corp. Source Codes: 054881004; 419158

Report No.: HCA9-92

Search Performed by Sylvia Keys 17-May-04

15 May 92 118p

Languages: English Document Type: Thesis

Journal Announcement: GRAI9314

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NTIS Prices: PC A06/MF A02

Country of Publication: United States

Central appointment systems can be an effective and efficient mechanism for ensuring that the health care **provider**, the patient, and the medical records arrive at the right time for a patient - **provider** encounter. These systems are flexible enough to allow **providers** to control their own schedules, expedite patients' appointments, and improve the administration's planning effort by providing summary reports on staff activity and other information that can be used to ensure appropriate allocation of resources (Herpok, 1980). DeWitt Army Community Hospital (DACH) has an **automated appointment** system that was fielded in 1989. The purpose of this study is to **determine** how the patient **appointment** system at DACH currently functions, compare this with how the system was designed to function, and determine the optimal functioning level for the appointment system. U.S. Army Health Services Command (HSC) Pamphlet 40-7-1, Medical Services Patient Appointment System, was used as a baseline for the latter parameter. Appointment systems, Access.

Descriptors: \*Hospitals; \*Functional analysis; \*Scheduling; \*Management information systems; Allocations; Functions; Medical services; Patients; Planning; Records; Health care facilities; Automation; Army facilities; Theses

Identifiers: Medical records; Central appointment systems; NTISDODXA

Section Headings: 44U (Health Care--Health Care Delivery Organization and Management); 44T (Health Care--Data and Information Systems)

12/5/3 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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09289376 Genuine Article#: 387ZY Number of References: 33

**Title: The patient-provider relationship: Attachment theory and adherence to treatment in diabetes**

Author(s): Ciechanowski PS (REPRINT) ; Katon WJ; Russo JE; Walker EA

Corporate Source: Univ Washington, Dept Psychiat & Behav Sci, Box

356560/Seattle//WA/98195 (REPRINT); Univ Washington, Dept Psychiat &

Behav Sci, Seattle//WA/98195; Grp Hlth Cooperat Puget

Sound, Seattle//WA/98121

Journal: AMERICAN JOURNAL OF PSYCHIATRY, 2001, V158, N1 (JAN), P29-35

ISSN: 0002-953X Publication date: 20010100

Publisher: AMER PSYCHIATRIC PRESS, INC, 1400 K ST, N W, STE 1101,

WASHINGTON, DC 20005 USA

Language: English Document Type: ARTICLE

Geographic Location: USA

Journal Subject Category: PSYCHIATRY

**Abstract:** Objective: Lack of adherence to diabetic self-management regimens is associated with a high risk of diabetes complications. Previous research has shown that the quality of the patient- **provider** relationship is associated with adherence to diabetes treatment. This study attempts to improve understanding of both patient and **provider** factors involved in lack of adherence to treatment in diabetic patients by using the conceptual model of attachment theory.

Method: Instruments that assessed attachment, treatment adherence, depression, diabetes severity, patient- **provider** communication, and demographic data were administered to 367 patients with type 1 and 2 diabetes in a health maintenance organization primary care setting. Glucose control, medical comorbidity, and adherence to medications and clinic **appointments** were **determined** from **automated** data. Analyses of covariance were used to determine if attachment style and quality of patient- **provider** communication were associated with adherence to treatment.

Results: Patients who exhibited dismissing attachment had significantly worse glucose control than patients with preoccupied or secure attachment. An interaction between attachment and communication quality was significantly associated with glycosylated hemoglobin (Hb A(1c)) levels. Among the patients with a dismissing attachment style, there was a significant difference in glycosylated hemoglobin levels between those who rated their patient- **provider** communication as poor (mean = 8.50%, SD = 1.55%) and those who rated this communication as good (mean = 7.49%, SD = 1.33%). Among all patients who were taking oral hypoglycemics, adherence to medications and glucose monitoring was significantly worse in patients who exhibited dismissing attachment and rated their patient- **provider** communication as poor.

Conclusions: Dismissing attachment in the setting of poor patient- **provider** communication is associated with poorer treatment adherence in patients with diabetes.

Identifiers--Keyword Plus(R): ADULT ATTACHMENT; CHRONIC DISEASE; OUTCOMES; ILLNESS; STYLES; SAMPLE

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12/5/4 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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09197771 Genuine Article#: 378DB Number of References: 20

**Title: The impact of outreach efforts in reaching underimmunized children in a Medicaid managed care practice**

Author(s): Vivier PM (REPRINT) ; Alario AJ; OHaire C; Dansereau LM; Jakum EB; Peter G

Corporate Source: RHODE ISL HOSP,DEPT PEDIAT, 593 EDDY  
ST/PROVIDENCE//RI/02903 (REPRINT); BROWN UNIV,DEPT  
PEDIAT/PROVIDENCE//RI/02912; BROWN UNIV,DEPT COMMUNITY  
HLTH/PROVIDENCE//RI/02912

Journal: ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE, 2000, V154, N12 (DEC), P1243-1247

ISSN: 1072-4710 Publication date: 20001200

Publisher: AMER MEDICAL ASSOC, 515 N STATE ST, CHICAGO, IL 60610

Language: English Document Type: ARTICLE

Geographic Location: USA

Subfile: CC LIFE--Current Contents, Life Sciences; CC CLIN--Current  
Contents, Clinical Medicine;

Journal Subject Category: PEDIATRICS

**Abstract:** Background: National immunization standards call for all primary care **providers** to implement immunization tracking systems that include contacting families when children are overdue for vaccines. The restructuring of Medicaid systems toward managed care models with a greater emphasis on having defined medical homes for children presents opportunities to expand the use of immunization recall systems among low-income children.

**Objective:** To assess the impact of telephone, mail, and a combined approach to reaching underimmunized children enrolled in a hospital-based Medicaid managed care practice.

**Design and Methods:** All underimmunized children younger than 6 years who had been continuously enrolled in the hospital-based Medicaid managed care practice for 3 months were randomly assigned to 1 of 4 groups: (1) control group with no intervention, (2) telephone reminder group, (3) mail reminder group, or (4) sequential mail/telephone reminder group. After a 10-week follow-up, medical records and the hospital's **computerized appointment scheduling** system were reviewed to **determine** the effect of the outreach effort on appointments made, visits attended, immunizations received, and immunization status.

**Results:** Outreach efforts had a positive impact on the proportion of children immunized and on the resulting immunization coverage rates. The percentage of children receiving immunizations during the 10-week follow-up was 4.2% (3/71) for the control group, 16.7% (10/60) for the telephone reminder group, 19.0% (12/63) for the mail reminder group, and 25.7% (18/70) for the sequential mail/telephone reminder group. The percentage of children up-to-date for all immunizations at the end of the 10-week follow-up was 2.8% (2/71) for the control group, 13.3% (8/60) for the telephone reminder group, 14.3% (9/63) for the mail reminder group, and 17.1% (12/70) for the sequential mail/telephone reminder group. Forty-eight children were seen during follow-up without receiving all indicated vaccines.



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DIALOG(R) File 8: Ei Compendex(R)  
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04087588 E.I. No: EIP95022592584

**Title: Real-time communication services in a DQDB network**

Author: Carmo, Rosa L.R.; Vasques, Francisco; Juanole, Guy

Corporate Source: Cent Natl de la Recherche Scientifique, Toulouse, Fr

Conference Title: Proceedings of the 1994 IEEE Real-Time Systems Symposium

Conference Location: San Juan, PR Conference Date: 19941207-19941209

Sponsor: IEEE

E.I. Conference No.: 42446

Source: Proceedings - Real-Time Systems Symposium 1994. IEEE, Piscataway, NJ, USA. p 249-258

Publication Year: 1994

CODEN: PRSYEA

Language: English

Document Type: CA; (Conference Article) Treatment: G; (General Review); T; (Theoretical)

Journal Announcement: 9505W1

Abstract: This paper addresses the problem of **transmitting** real-time periodic traffic in a DQDB network. In a DQDB network, connection-oriented isochronous services use the Pre-Arbitrated (PA) access. The standard specifies that isochronous connections must have guaranteed periodic bandwidth but mechanisms to provide it, such as the slot allocation scheme, are not described. We propose a Real-Time **Service Provider** (RTSP) based on the use of the PA access. The RTSP consists of an off-line centralized **scheduling** algorithm and an **on-line** mode change algorithm which allows to take into account load changes. Means are also provided to guarantee a minimum fairness level for the asynchronous traffic. (Author abstract) 10 Refs.

Descriptors: \*Real time systems; Telecommunication services; Telecommunication traffic; Data acquisition; Resource allocation; Bandwidth; Frequency allocation; Metropolitan area networks

Identifiers: Real time communication services; Pre-arbitrated access; Real time **service provider**; Greatest common divisor; Medium access control protocol

Classification Codes:

722.4 (Digital Computers & Systems); 716.1 (Information & Communication Theory); 723.2 (Data Processing); 722.3 (Data Communication, Equipment & Techniques); 723.1 (Computer Programming)

722 (Computer Hardware); 716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS)

12/5/2 (Item 1 from file: 6)  
DIALOG(R) File 6: NTIS  
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1724683 NTIS Accession Number: AD-A261 753/8

**Optimize the Patient Appointment System: At Dewitt Army Community Hospital**

(Final rept. Jul 91-Jul 92)

Allgood, S. J.

Academy of Health Sciences (Army), Fort Sam Houston, TX. Health Care Administration.

Corp. Source Codes: 054881004; 419158

Report No.: HCA9-92

Search Performed by Sylvia Keys 17-May-04

15 May 92 118p

Languages: English Document Type: Thesis

Journal Announcement: GRAI9314

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NTIS Prices: PC A06/MF A02

Country of Publication: United States

Central appointment systems can be an effective and efficient mechanism for ensuring that the health care **provider**, the patient, and the medical records arrive at the right time for a patient - **provider** encounter. These systems are flexible enough to allow **providers** to control their own schedules, expedite patients' appointments, and improve the administration's planning effort by providing summary reports on staff activity and other information that can be used to ensure appropriate allocation of resources (Herpock, 1980). DeWitt Army Community Hospital (DACH) has an **automated appointment** system that was fielded in 1989. The purpose of this study is to **determine** how the patient **appointment** system at DACH currently functions, compare this with how the system was designed to function, and determine the optimal functioning level for the appointment system. U.S. Army Health Services Command (HSC) Pamphlet 40-7-1, Medical Services Patient Appointment System, was used as a baseline for the latter parameter. Appointment systems, Access.

Descriptors: \*Hospitals; \*Functional analysis; \*Scheduling; \*Management information systems; Allocations; Functions; Medical services; Patients; Planning; Records; Health care facilities; Automation; Army facilities; Theses

Identifiers: Medical records; Central appointment systems; NTISDODXA

Section Headings: 44U (Health Care--Health Care Delivery Organization and Management); 44T (Health Care--Data and Information Systems)

12/5/3 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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09289376 Genuine Article#: 387ZY Number of References: 33

**Title: The patient-provider relationship: Attachment theory and adherence to treatment in diabetes**

Author(s): Ciechanowski PS (REPRINT) ; Katon WJ; Russo JE; Walker EA

Corporate Source: Univ Washington, Dept Psychiat & Behav Sci, Box

356560/Seattle//WA/98195 (REPRINT); Univ Washington, Dept Psychiat &

Behav Sci, Seattle//WA/98195; Grp Hlth Cooperat Puget

Sound, Seattle//WA/98121

Journal: AMERICAN JOURNAL OF PSYCHIATRY, 2001, V158, N1 (JAN), P29-35

ISSN: 0002-953X Publication date: 20010100

Publisher: AMER PSYCHIATRIC PRESS, INC, 1400 K ST, N W, STE 1101,

WASHINGTON, DC 20005 USA

Language: English Document Type: ARTICLE

Geographic Location: USA

Journal Subject Category: PSYCHIATRY

**Abstract:** Objective: Lack of adherence to diabetic self-management regimens is associated with a high risk of diabetes complications. Previous research has shown that the quality of the patient- **provider** relationship is associated with adherence to diabetes treatment. This study attempts to improve understanding of both patient and **provider** factors involved in lack of adherence to treatment in diabetic patients by using the conceptual model of attachment theory.

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DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2004 Inst for Sci Info. All rts. reserv.

09197771 Genuine Article#: 378DB Number of References: 20

**Title: The impact of outreach efforts in reaching underimmunized children in a Medicaid managed care practice**

Author(s): Vivier PM (REPRINT) ; Alario AJ; OHaire C; Dansereau LM; Jakum EB; Peter G

Corporate Source: RHODE ISL HOSP,DEPT PEDIAT, 593 EDDY ST/PROVIDENCE//RI/02903 (REPRINT); BROWN UNIV,DEPT PEDIAT/PROVIDENCE//RI/02912; BROWN UNIV,DEPT COMMUNITY HLTH/PROVIDENCE//RI/02912

Journal: ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE, 2000, V154, N12 (DEC ), P1243-1247

ISSN: 1072-4710 Publication date: 20001200

Publisher: AMER MEDICAL ASSOC, 515 N STATE ST, CHICAGO, IL 60610

Language: English Document Type: ARTICLE

Geographic Location: USA

Subfile: CC LIFE--Current Contents, Life Sciences; CC CLIN--Current Contents, Clinical Medicine;

Journal Subject Category: PEDIATRICS

**Abstract:** Background: National immunization standards call for all primary care **providers** to implement immunization tracking systems that include contacting families when children are overdue for vaccines. The restructuring of Medicaid systems toward managed care models with a greater emphasis on having defined medical homes for children presents opportunities to expand the use of immunization recall systems among low-income children.

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**Results:** Outreach efforts had a positive impact on the proportion of children immunized and on the resulting immunization coverage rates. The percentage of children receiving immunizations during the 10-week follow-up was 4.2% (3/71) for the control group, 16.7% (10/60) for the telephone reminder group, 19.0% (12/63) for the mail reminder group, and 25.7% (18/70) for the sequential mail/telephone reminder group. The percentage of children up-to-date for all immunizations at the end of the 10-week follow-up was 2.8% (2/71) for the control group, 13.3% (8/60) for the telephone reminder group, 14.3% (9/63) for the mail reminder group, and 17.1% (12/70) for the sequential mail/telephone reminder group. Forty-eight children were seen during follow-up without receiving all indicated vaccines.

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 5318955 PY>2000  
 S15 51 S14 NOT PY>2000  
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 ...examined 50 records (50)  
 ...completed examining records  
 S16 46 RD (unique items)  
 ? t s16/5/all

16/5/1 (Item 1 from file: 8)  
 DIALOG(R)File 8: Ei Compendex(R)  
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05575970 E.I. No: EIP00065196329

**Title:** On - line scheduling **policy for IRIS real-time composite tasks**  
**Author:** Cam, Hasan  
**Corporate Source:** King Fahd Univ of Petroleum and Minerals, Dhahran, Saudi Arabia  
**Source:** Journal of Systems and Software v 52 n 1 2000. p 25-32  
**Publication Year:** 2000  
**CODEN:** JSSODM **ISSN:** 0164-1212  
**Language:** English  
**Document Type:** JA; (Journal Article) **Treatment:** T; (Theoretical)  
**Journal Announcement:** 0007W4

**Abstract:** In a new class of real-time tasks, called increasing reward with increasing service tasks (IRIS), the value of a task's computation increases as a function of the amount of execution time it has been able to accrue before its deadline expires. A composite task is a set of dependent component tasks. This paper presents an **on - line scheduling** policy for IRIS composite tasks. This policy aims to increase the total accrued reward of composite tasks within deadlines on a uniprocessor. If there is not enough time to schedule all the component tasks of a composite task, those component tasks having the little impact on the total reward of the composite task are not scheduled for execution by the proposed scheduling policy. A flexible task graph is also introduced to aid in **determining** the amount of service **times** to be allocated to the given composite tasks. The performance of the proposed scheduling policy is evaluated both analytically and by computer simulation. (Author abstract) 25 Refs.

**Descriptors:** \*Real time systems; Computer systems programming; Response time (computer systems); Online systems; Computer simulation

**Identifiers:** Increasing reward with increasing service tasks (IRIS)

**Classification Codes:**

722.4 (Digital Computers & Systems); 723.1 (Computer Programming);  
 723.5 (Computer Applications)  
 722 (Computer Hardware); 723 (Computer Software)  
 72 (COMPUTERS & DATA PROCESSING)

16/5/2 (Item 2 from file: 8)  
 DIALOG(R)File 8: Ei Compendex(R)  
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05348624 E.I. No: EIP99094766326

**Title:** EDL server for scheduling periodic and soft aperiodic tasks with **resource constraints**

**Author:** Silly, Maryline  
**Corporate Source:** Universite de Nantes, Nantes, Fr  
**Source:** Real-Time Systems v 17 n 1 1999. p 87-111

Search Performed by Sylvia Keys 17-May-04

Publication Year: 1999  
 CODEN: RESYE9 ISSN: 0922-6443  
 Language: English  
 Document Type: JA; (Journal Article) Treatment: A; (Applications); T;  
 (Theoretical)  
 Journal Announcement: 9910W2  
 Abstract: In this paper, we are concerned with the problem of serving  
 soft aperiodic tasks on a uniprocessor system where periodic tasks are  
 scheduled on a dynamic-priority, preemptive basis and exclusively access to  
 critical sections. Scheduling of tasks is handled by the Dynamic Priority  
 Ceiling Protocol working with an Earliest Deadline scheduler. Our analysis  
**determines** the maximum processing **time** which may be stolen from periodic  
 tasks without jeopardizing both their timing constraints and resource  
 consistency. It provides the basis for an **on - line scheduling**  
 algorithm, the EDL Server, to deal with the minimization of response times  
 for soft aperiodic tasks. (Author abstract) 23 Refs.  
 Descriptors: \*Real time systems; Response time (computer systems); Client  
 server computer systems; Constraint theory; Network protocols; Algorithms  
 Identifiers: Soft aperiodic tasks; Dynamic priority ceiling protocols  
 Classification Codes:  
 722.4 (Digital Computers & Systems); 721.1 (Computer Theory, Includes  
 Formal Logic, Automata Theory, Switching Theory, Programming Theory)  
 722 (Computer Hardware); 721 (Computer Circuits & Logic Elements); 723  
 (Computer Software)  
 72 (COMPUTERS & DATA PROCESSING)

16/5/3 (Item 3 from file: 8)  
 DIALOG(R)File 8:Ei Compendex(R)  
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05020385 E.I. No: EIP98054212318  
**Title: Schemes for scheduling of control messages by hierarchical  
 protocols**  
 Author: Bortnikov, Edward; Cohen, Reuven  
 Corporate Source: Technion, Haifa, Isr  
 Conference Title: Proceedings of the 1998 17th Annual IEEE Conference on  
 Computer Communications, INFOCOM. Part 2 (of 3)  
 Conference Location: San Francisco, CA, USA Conference Date:  
 19980329-19980402  
 Sponsor: IEEE  
 E.I. Conference No.: 48335  
 Source: Proceedings - IEEE INFOCOM v 2 1998. IEEE, Piscataway, NJ,  
 USA, 98CH36169. p 865-872  
 Publication Year: 1998  
 CODEN: PINFEZ ISSN: 0743-166X  
 Language: English  
 Document Type: CA; (Conference Article) Treatment: A; (Applications); T  
 ; (Theoretical)  
 Journal Announcement: 9807W3  
 Abstract: The paper addresses the problem of designing efficient  
 scheduling policies for the transmission of control messages by  
 hierarchical network protocols. Such protocols encounter a tradeoff between  
 the desire to forward a control message across the tree as soon as it is  
 received, and the desire to reduce control traffic. Scheduling problems  
 that arise in this context are defined and discussed. The paper mainly  
 concentrates on minimizing the average extra delay encountered by the  
 control messages under an upper bound on the number of outgoing messages a  
 node can **send** during a fixed period of **time**. A polynomial-time  
 algorithm is presented for the off-line version of the problem, and then  
 several efficient on-line heuristics are presented and compared. (Author

abstract) 8 Refs.

Descriptors: Network protocols; Hierarchical systems; Algorithms; **Online systems; Scheduling** ; Heuristic methods; Dynamic programming

Identifiers: Hierarchical network protocols; Polynomial time algorithms; Scheduling algorithms

Classification Codes:

723.2 (Data Processing); 722.4 (Digital Computers & Systems); 921.6 (Numerical Methods); 921.5 (Optimization Techniques)

723 (Computer Software); 722 (Computer Hardware); 921 (Applied Mathematics)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

**16/5/4 (Item 4 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

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04518534 E.I. No: EIP96103358949

**Title: Neural networks for process scheduling in real-time communication systems**

Author: Cavalieri, Salvatore; Mirabella, Orazio

Corporate Source: Universita di Catania, Catania, Italy

Source: IEEE Transactions on Neural Networks v 7 n 5 Sep 1996. p 1272-1285

Publication Year: 1996

CODEN: ITNNEP ISSN: 1045-9227

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications); T; (Theoretical)

Journal Announcement: 9612W1

Abstract: This paper presents the use of neural-network model for process scheduling in the area of factory automation, where bus-based communication systems, called FieldBuses, are widely used to connect sensors and actuators to the control systems. The neural model proposed allows several processes to be scheduled simultaneously; the time required is polynomial with respect to the number of processes being scheduled. This feature allows real-time process scheduling and makes it possible for the scheduling table to adapt to changes in process control features. Finally, an **on - line scheduling** strategy based on the neural model which can achieve real-time adaptation of the scheduling table to changes in the manufacturing environment is proposed. 24 Refs.

Descriptors: \*Neural networks; Process control; Scheduling; Real time systems; Data communication systems; Factory automation; Computational complexity; Computer aided manufacturing; Online systems; Algorithms

Identifiers: Hopfield type model; Strong **time** constraints; Information **transmission** ; **Online scheduling** strategy

Classification Codes:

913.4.2 (Computer Aided Manufacturing)

723.4 (Artificial Intelligence); 731.1 (Control Systems); 912.2 (Management); 722.4 (Digital Computers & Systems); 722.3 (Data Communication, Equipment & Techniques); 913.4 (Manufacturing)

723 (Computer Software); 731 (Automatic Control Principles); 912 (Industrial Engineering & Management); 722 (Computer Hardware); 913 (Production Planning & Control)

72 (COMPUTERS & DATA PROCESSING); 73 (CONTROL ENGINEERING); 91 (ENGINEERING MANAGEMENT)

**16/5/5 (Item 5 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

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04390514 E.I. No: EIP96043152339

**Title: Analysis of partial setup strategies for solving the operational planning problem in parallel machine electronic assembly systems**

Author: Peters, B.A.; Subramanian, G.S.

Corporate Source: Texas A&M Univ, TX, USA

Source: International Journal of Production Research v 34 n 4 Apr 1996. p 999-1021

Publication Year: 1996

CODEN: IJPRB8 ISSN: 0020-7543

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 9606W4

**Abstract:** In this paper, we analyse the operational planning problem in an electronic assembly system with multiple placement machines operating in parallel. The partial setup strategy is proposed as an effective methodology for this problem. This strategy attempts to **determine** the balance between processing **time** and changeover time during system operation. The four primary issues are determining the assignment of products to machines, the sequence of products on each machine, the assignment of components to feeder locations for each product, and the component placement sequence for each product. Four solution procedures for unique and partial setup strategies are developed and tested. The computation results show that for low to medium volume high mix environments, the partial setup procedures offer significant improvement over the unique setup strategies. The results also show that no single fixed strategy dominates in all scenarios, and therefore, an adaptable procedure that will choose the best solution for each set of requirements is needed. (Author abstract) 23 Refs.

**Descriptors:** **Electronic** equipment manufacture; Planning; Machinery; Assembly; **Scheduling** ; Optimization

**Identifiers:** Electronic assembly system; Partial setup strategy; Operational planning problem; Multiple placement machine

**Classification Codes:**

715.2 (Industrial Electronic Equipment); 912.2 (Management); 921.5 (Optimization Techniques)

715 (General Electronic Equipment); 912 (Industrial Engineering & Management); 921 (Applied Mathematics)

71 (ELECTRONICS & COMMUNICATIONS); 91 (ENGINEERING MANAGEMENT); 92 (ENGINEERING MATHEMATICS)

**16/5/6 (Item 6 from file: 8)**

DIALOG(R)File 8:Ei Compendex(R)

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04357266 E.I. No: EIP96033067572

**Title: Optimal sequencing of double-gripper gantry robot moves in tightly-coupled serial production systems**

Author: Su, Qi; Chen, F. Frank

Corporate Source: Florida Int Univ, Miami, FL, USA

Source: IEEE Transactions on Robotics and Automation v 12 n 1 Feb 1996. p 22-30

Publication Year: 1996

CODEN: IRAUEZ ISSN: 1042-296X

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 9605W1

**Abstract:** This study addresses the problem of scheduling double-gripper

gantry robots and provides a structure for analyzing **scheduling** problems in a tightly-coupled **automated** serial production line with **deterministic** processing **time**. Literature to **date** indicates that there has been no documented effort dealing with the scheduling problem of double-gripper gantry robots. This paper presents an optimal schedule by analyzing the cycle time formula for two-station ( $m$  equals 2) tightly-coupled production lines served by a double-gripper gantry robot. The result is then generalized to the problem of scheduling a gantry robot in a production line with  $m$  (where  $m$  greater than 2) workstations, and finally an optimal schedule for the  $m$ -station case is developed. The effectiveness of using double-gripper gantry robots is discussed and some analytical insights into the employment of double-gripper gantry robot are provided for manufacturing system designers. (Author abstract) 24 Refs.

Descriptors: \*Industrial robots; Optimization; Grippers; Scheduling; Production control; Flexible manufacturing systems; Automation; Computational complexity; Algorithms; Heuristic methods

Identifiers: Gantry robot; Optimal sequencing; Serial production line; Cycle time formula

Classification Codes:

913.4.1 (Flexible Manufacturing Systems)  
731.5 (Robotics); 921.5 (Optimization Techniques); 912.2 (Management); 913.2 (Production Control); 913.4 (Manufacturing); 721.1 (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory)  
731 (Automatic Control Principles); 921 (Applied Mathematics); 912 (Industrial Engineering & Management); 913 (Production Planning & Control); 721 (Computer Circuits & Logic Elements)  
73 (CONTROL ENGINEERING); 92 (ENGINEERING MATHEMATICS); 91 (ENGINEERING MANAGEMENT); 72 (COMPUTERS & DATA PROCESSING)

16/5/7 (Item 7 from file: 8)  
DIALOG(R)File 8:Ei Compendex(R)  
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04297805 E.I. No: EIP95122949037

**Title: Pre-run-time scheduling to reduce schedule length in the fieldbus environment**

Author: Cavalieri, Salvatore; Di Stefano, Antonella; Mirabella, Orazio  
Corporate Source: Universita' di Catania, Catania, Italy  
Source: IEEE Transactions on Software Engineering v 21 n 11 Nov 1995. p 865-880

Publication Year: 1995

CODEN: IESEDJ ISSN: 0098-5589

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 9602W1

Abstract: The paper deals with the problem of scheduling the transmission of periodic processes in a distributed FieldBus system, defining the conditions guaranteeing correct transmission. The scheduling of periodic processes fixes the **transmission times** for each process in a table, whose length is equal to the Least Common Multiple (LCM) of all the periods. This involves great memorization problems when some periods are relatively prime. The authors identify the theoretical conditions which allow the length of the scheduling table to be drastically reduced, but still guarantee correct transmission. On the basis of the theoretical conditions given, the authors present a pre-run- **time** scheduling algorithm which **determines** a **transmission** sequence for each producing process within the desired **scheduling** interval. An **on - line scheduling** algorithm is also proposed to schedule new **transmission requests** which



are made while the system is functioning. The reduction in the schedule length may increase the number of transmissions, thus reducing the effective bandwidth and increasing the communication overload. In order to make as complete an analysis as possible of the scheduling solution, the authors also present an analysis of both the computational complexity of the algorithms proposed and the communication overload introduced. (Author abstract) 24 Refs.

Descriptors: \*Data communication systems; Process control; Scheduling; Algorithms; Computational complexity; Distributed parameter control systems; Constraint theory; Online systems; Bandwidth

Identifiers: Process control scheduling; Scheduling tables; Field bus; Schedule compression; Periodic processes; Communication overload

Classification Codes:

722.3 (Data Communication, Equipment & Techniques); 731.1 (Control Systems); 722.4 (Digital Computers & Systems)

722 (Computer Hardware); 731 (Automatic Control Principles); 723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING); 73 (CONTROL ENGINEERING)

16/5/8 (Item 8 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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03914103 E.I. No: EIP94081363073

**Title: Fault-tolerant scheduling**

Author: Kalyanasundaram, Bala; Pruhs, Kirk R.

Corporate Source: Univ of Pittsburgh, Pittsburgh, PA, USA

Conference Title: Proceedings of the 26th Annual ACM Symposium on the Theory of Computing

Conference Location: Montreal, Que, Can Conference Date: 19940523-19940525

Sponsor: ACM

E.I. Conference No.: 20686

Source: Conference Proceedings of the Annual ACM Symposium on Theory of Computing 1994. Publ by ACM, New York, NY, USA. p 115-124

Publication Year: 1994

CODEN: CATCDQ ISSN: 0734-9025 ISBN: 0-89791-663-8

Language: English

Document Type: CA; (Conference Article) Treatment: G; (General Review); T; (Theoretical)

Journal Announcement: 9409W4

Abstract: We study fault-tolerant multiprocessor nonpreemptive scheduling under the realistic assumption that the occurrence of faults can not be predicted. The goal in these problems is to minimize the delay incurred by the jobs. Since this is an on-line problem we use competitive analysis to evaluate possible algorithms. For the problems of minimizing the make-span, and minimizing the average response time (for static release **times**), we give nonclairvoyant algorithms (both **deterministic** and randomized) that have provably asymptotically optimal competitive ratios. The main tool used by these algorithms to combat faults is redundancy. We show that randomization has the same effect as redundancy. (Author abstract) 9 Refs.

Descriptors: Fault tolerant computer systems; **Scheduling**; Coding errors; **Online** systems; Algorithms; Redundancy; Multiprocessing systems; Computer networks

Identifiers: Fault tolerant scheduling; Nonpreemptive scheduling; Average response time; Nonclairvoyant algorithms; Fault tolerant multiprocessor nonpreemptive scheduling

Classification Codes:

722.4 (Digital Computers & Systems); 922.2 (Mathematical Statistics); 723.2 (Data Processing); 723.1 (Computer Programming); 921.6 (Numerical

Methods)

722 (Computer Hardware); 922 (Statistical Methods); 723 (Computer Software); 921 (Applied Mathematics)  
72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

**16/5/9 (Item 9 from file: 8)**

DIALOG(R) File 8: Ei Compendex(R)

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03610796 E.I. No: EIP93030721934

**Title: Real-time irrigation scheduling of cotton with an automated pan evaporation system**

Author: Phene, C.J.; DeTar, W.R.; Clark, D.A.

Corporate Source: USDA-Agricultural Research Service-WMRL, Fresno, CA, USA

Source: Applied Engineering in Agriculture v 8 n 6 Nov 1992. p 787-793

Publication Year: 1992

CODEN: AEAGEI ISSN: 0883-8542

Language: English

Document Type: JA; (Journal Article) Treatment: A; (Applications); X; (Experimental)

Journal Announcement: 9306W1

Abstract: High frequency irrigation control necessitates real-time monitoring of soil water, plant water status or atmospheric evaporative demand. The research objective was to **determine** the suitability of real-time control of subsurface drip irrigation using automated evaporation pan measurements. Hourly electronic measurement of water loss from an evaporation pan was a critical feedback control element in the irrigation scheduling of a high frequency subsurface drip system (SDI) used to irrigate cotton. The water level in the class 'A' pan was monitored continuously using a micrologger to measure the output of the electronic water level sensor. The crop water needs were calculated by multiplying the evaporation from the pan by a pan and crop coefficient. When the calculated water need was equal to or greater than 2 mm (0.08 in.) in 1990 and 1 mm (0.04 in.) in 1991, the micrologger automatically activated the irrigation system. Data were automatically transmitted daily to the station computer via telephone. Water was added each night to the pan automatically to refill the pan to a constant level. After installation and testing, the control system worked automatically without manual intervention for two growing seasons. (Author abstract) 16 Refs.

Descriptors: \*Irrigation; Scheduling; Cotton; Evaporation; Equipment; Measurements; Automation; Control systems

Identifiers: Irrigation scheduling; Pan evaporation systems; Subsurface drip systems

Classification Codes:

821.3 (Agricultural Methods); 723.5 (Computer Applications)

821 (Agricultural Equipment & Methods); 723 (Computer Software)

82 (AGRICULTURE & FOOD TECHNOLOGY); 72 (COMPUTERS & DATA PROCESSING)

**16/5/10 (Item 10 from file: 8)**

DIALOG(R) File 8: Ei Compendex(R)

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03353591 E.I. Monthly No: EIM9112-065275

**Title: On decentralized on - line scheduling of FMS.**

Author: Engell, Sebastian; Kuhn, Tilman; Moser, Manfred

Corporate Source: Fraunhofer-Inst for Inf & Data Process, Karlsruhe, Germany

Conference Title: Proceedings of the 29th IEEE Conference on Decision and

Control Part 1 (of 6)

Conference Location: Honolulu, HI, USA Conference Date: 19901205

Sponsor: IEEE Control Systems Soc

E.I. Conference No.: 15303

Source: Proceedings of the IEEE Conference on Decision and Control v 1.  
Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n  
90CH2917-3). p 125-127

Publication Year: 1990

CODEN: PCDCDZ ISSN: 0191-2216

Language: English

Document Type: PA; (Conference Paper) Treatment: A; (Applications); T;  
(Theoretical)

Journal Announcement: 9112

Abstract: The scheduling problem is considered for medium sized (5-10 machines or workplaces) flexible manufacturing systems which are part of a larger production process. The general philosophy is to divide the scheduling problem into a number of local decentralized problems: the optimal sequencing and routing of the jobs within flexible manufacturing systems or small workshops. The subsystems are coordinated by an upper-level scheduler. It assigns the due dates for the completion of operations in the subsystems and **determines** the earliest possible starting **times** from the dependencies among the operations and the externally determined starting conditions. Based on the mathematical description of decision-free manufacturing systems in terms of the minimax algebra, the coordination of the subsystems can be achieved in a very simple manner. In this study the behavior of local **on - line scheduling** algorithms is investigated. The local control laws are based on priority rules augmented by look-ahead strategies. 7 Refs.

Descriptors: \*INDUSTRIAL PLANTS--\*Flexible Manufacturing Systems;  
PRODUCTION CONTROL--Scheduling; MATHEMATICAL TECHNIQUES--Algorithms

Identifiers: MANUFACTURING SYSTEMS; FMS; PRODUCTION SCHEDULING;  
SCHEDULING ALGORITHMS

Classification Codes:

913 (Production Planning & Control); 921 (Applied Mathematics)

91 (ENGINEERING MANAGEMENT); 92 (ENGINEERING MATHEMATICS)

16/5/11 (Item 11 from file: 8)

DIALOG(R) File 8:EI Compendex(R)

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03330010 E.I. Monthly No: EI9111139251

**Title: Procedure to adjust transit trip departure times through minimizing the maximum headway.**

Author: Ceder, Avishai

Corporate Source: Technion-Israel Inst of Technology, Haifa, Isr

Source: Computers & Operations Research v 18 n 5 1991 p 417-431

Publication Year: 1991

CODEN: CMORAP ISSN: 0305-0548

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical); A;  
(Applications)

Journal Announcement: 9111

Abstract: Transit frequency is usually determined at the heavier load route segment, whereas at other segments the operation may be inefficient due to situations characterized by empty seats. The transit schedulers attempt to overcome this problem by deleting manually some departure times to allow for the initiation of certain trips beyond the beginning of the route and/or termination-before the end of the route. The outcome of this process is the reduction of the number of vehicles required to carry on the timetable. This work describes an **automated** procedure for the **scheduler**

to adjust the number of departures at each route timepoint to that required from a passenger load standpoint. Given a complete timetable, the procedure reduces the number of departures with the objective to minimize the maximum headway to be obtained, where the headway is associated with passenger wait time. This minimax headway problem is solved through: (i) representation of the problem on a directed network with a special pattern; (ii) applying a modified shortest-path algorithm on the network to determine the minimax headway; and (iii) applying an algorithm to ensure that the exact number of required departures will be included in the optimal solution. Finally, some computational results and an example are demonstrated. (Author abstract) 8 Refs.

Descriptors: \*MOTOR BUS TRANSPORTATION--\*Scheduling; URBAN PLANNING--Transportation; RAPID TRANSIT; OPERATIONS RESEARCH; MOTOR BUSES; COMPUTER PROGRAMMING--Algorithms

Identifiers: TRANSIT SCHEDULING; TRANSIT TRIP DEPARTURE **TIME** ADJUSTMENT ; MINIMAX HEADWAY **DETERMINATION** ; DIRECTED NETWORKS; SHORTEST PATH ALGORITHMS

Classification Codes:

432 (Highway Transportation); 663 (Heavy Duty Vehicles); 912 (Industrial Engineering & Management); 403 (Urban & Regional Planning & Development)

43 (TRANSPORTATION); 66 (AUTOMOTIVE ENGINEERING); 91 (ENGINEERING MANAGEMENT); 40 (CIVIL ENGINEERING)

16/5/12 (Item 12 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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03308366 E.I. Monthly No: EI9110117997

**Title: A dining philosophers algorithm with polynomial response time.**

Author: Awerbuch, Baruch; Saks, Michael

Corporate Source: Dept of Math, MIT, Cambridge, MA, USA

Source: IEEE Transactions on Industry Applications v 27 n 1 pt 1 Jan-Feb 1991 p 65-74

Publication Year: 1991

CODEN: ITIACR ISSN: 0093-9994

Language: English

Document Type: PA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 9110

**Abstract:** The authors present an efficient distributed **online** algorithm for **scheduling** jobs that are created dynamically, subject to resource constraints that require that certain pairs of jobs not run concurrently. The focus is on the response time of the system to each job, i.e., the length of the time interval that starts when the job is created or assigned to a processor and ends at the instant the execution of the job begins. The goal is to provide guarantees on the response time to each job  $j$  in terms of the density of arrivals of jobs that conflict with  $j$ . The model is completely asynchronous and includes various resource allocation problems that have been studied extensively, including the dining philosophers problem and its generalizations to arbitrary networks. In these versions of the problem, the resource requirements of each new job  $j$  determines an upper bound  $\delta_j$  on the number of jobs that can exist concurrently in the system and conflict with  $j$ . It is easy to show that given such upper bounds, no scheduling algorithm can guarantee a response time better than  $\delta_j$  ( **times** the maximum execution or message **transmission time** ). A simple algorithm that guarantees response time that is essentially polynomial in  $\delta_j$  is presented. It is based on the notion of a distributed queue and has a compact implementation. 17 Refs.

Descriptors: \*COMPUTER OPERATING SYSTEMS--\*Design; COMPUTER SYSTEMS, DIGITAL--Distributed; SCHEDULING--Applications

Identifiers: SCHEDULING ALGORITHMS; DINING PHILOSOPHERS PROBLEM  
Classification Codes:  
722 (Computer Hardware); 723 (Computer Software); 913 (Production Planning & Control)  
72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT)

16/5/13 (Item 13 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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03013282 E.I. Monthly No: EIM9101-003282  
**Title:** Expert simulation for on - line scheduling .  
**Author:** Jain, Sanjay; Barber, Karon; Osterfeld, David  
**Corporate Source:** General Motors Tech Center, Warren, MI, USA  
**Conference Title:** 1989 Winter Simulation Conference Proceedings - WSC '89  
**Conference Location:** Washington, DC, USA **Conference Date:** 19891204  
**Sponsor:** American Statistical Assoc; IEEE Systems, Man, and Cybernetics Soc; Assoc for Computing Machinery, Special Interest Group on Simulation; IEEE Computer Soc, Los Alamitos, CA, USA; Inst of Industrial Engineers; et al

E.I. Conference No.: 13793  
**Source:** Winter Simulation Conference Proceedings. Publ by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n 89CH2778-9). p 930-935  
**Publication Year:** 1989  
**CODEN:** WSCPDK **ISSN:** 0275-0708  
**Language:** English  
**Document Type:** PA; (Conference Paper) **Treatment:** X; (Experimental); A; (Applications)

**Journal Announcement:** 9101  
**Abstract:** A description is given of the Expert System Scheduler, which uses heuristics developed by an experienced factory scheduler. It uses simulation concepts and their heuristics to generate schedules. Forward and backward simulation are used at different stages of the schedule generation process. The system is used to control parts flow on the factory floor at one automated facility. This highly automated facility is a testbed for implementation of CIM concepts. The scheduler runs on a Texas Instruments (TI) Explorer II computer using software developed inhouse utilizing IntelliCorp's Knowledge Engineering Environment (KEE) shell and the Lisp language. The scheduling computer is networked to the factory control computer, which actually controls the plant floor. The TI Explorer II acquires current plant floor information from the factory control system, generates a new schedule, and sends it back within a short time. The configuration allows fast response to changes in requirements and plant floor conditions. 6 Refs.

**Descriptors:** COMPUTER SIMULATION--\*Applications; EXPERT SYSTEMS; COMPUTER SYSTEMS, DIGITAL-- On Line Operation; **SCHEDULING** ; COMPUTER PROGRAMMING LANGUAGES--LISP; COMPUTER INTEGRATED MANUFACTURING

**Identifiers:** TEXAS INSTRUMENTS (TI) EXPLORER II COMPUTER  
**Classification Codes:**  
723 (Computer Software); 722 (Computer Hardware); 913 (Production Planning & Control)  
72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT)

16/5/14 (Item 14 from file: 8)  
DIALOG(R)File 8: Ei Compendex(R)  
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02313393 E.I. Monthly No: EI8709094087  
**Title:** ON - LINE SCHEDULING OF A ROBOTIC MANUFACTURING CELL WITH

**STOCHASTIC SEQUENCE-DEPENDENT PROCESSING RATES.**

Author: Seidmann, Abraham

Corporate Source: Univ of Rochester, Rochester, NY, USA

Source: International Journal of Production Research v 25 n 6 Jun 1987 p 907-924

Publication Year: 1987

CODEN: IJPRB8 ISSN: 0020-7543

Language: ENGLISH

Document Type: JA; (Journal Article) Treatment: M; (Management Aspects); T; (Theoretical)

Journal Announcement: 8709

Abstract: The problem of on-line production control for a robotic manufacturing cell producing parts of different types is analysed. The approach described in this paper expands the results of an earlier study so as to provide for sequence-dependent ( **deterministic** or exponential) processing **times** at the cell. In addition, a novel production control strategy permitting temporary suspension of the cell's activities at certain decision epochs is formulated. Several numerical examples are given to illustrate the productive potential of this formulation. They seem to indicate the superiority of the new strategy presented here to earlier optimal control strategies in which the cell had to be active as long as it was unblocked. (Author abstract) Refs.

Descriptors: \*PRODUCTION CONTROL--Scheduling; INDUSTRIAL PLANTS--Flexible Manufacturing Systems; DECISION THEORY AND ANALYSIS; ROBOTS, INDUSTRIAL; MATHEMATICAL PROGRAMMING, DYNAMIC

Identifiers: STOCHASTIC PROCESSES; SEQUENCE-DEPENDENT PROCESSING; FMS Classification Codes:

913 (Production Planning & Control); 723 (Computer Software); 922 (Statistical Methods); 731 (Automatic Control Principles); 921 (Applied Mathematics)

91 (ENGINEERING MANAGEMENT); 72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS); 73 (CONTROL ENGINEERING)

**16/5/15 (Item 15 from file: 8)**

DIALOG(R)File 8:Ei Compendex(R)

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02022135 E.I. Monthly No: EI8609088437 E.I. Yearly No: EI86095007

**Title: AUTOMATED SYSTEM FOR SCHEDULING PIPELINE TIME FOR SMALL BATCH PRODUCTION USING A SYMPHONY SPREADSHEET.**

Author: Bankes, William F.

Corporate Source: Monsanto Research Corp, Miamisburg, OH, USA

Source: Computers & Industrial Engineering v 11 n 1-4 1986, Proc of the 8th Annu conf on Comput and Ind Eng, Orlando, FL, USA, Mar 19-21 1986 p 303-307

Publication Year: 1986

CODEN: CINDDL ISSN: 0360-8352

Language: ENGLISH

Document Type: JA; (Journal Article) Treatment: A; (Applications); M; (Management Aspects)

Journal Announcement: 8609

Abstract: A scheduling pipeline program can be easily developed and customized using Symphony spreadsheet software. Monsanto Research Corporation produces small electro-mechanical component subassemblies in large lot sizes which are subdivided into transfer quantities. Since production takes place in several buildings, the transfer quantities create waiting time for parts not being worked. Batch production schedules are constructed and adjusted using the pipeline program. This application uses work centers and/or balanced workstation assignments to **determine** schedule **dates** for a given transfer quantity. Production routing

information is summarized for each station assignment, and these are considered as schedule points. The program incorporates many data base management, input forms, and graphic features available in Symphony.  
(Edited author abstract)

Descriptors: \*PRODUCTION CONTROL--\*Scheduling; DATA PROCESSING--Manufacturing Applications; COMPUTER SYSTEMS PROGRAMMING

Identifiers: PIPELINE SCHEDULING; LINE BALANCED SCHEDULING; SYMPHONY SPREADSHEET

Classification Codes:

913 (Production Planning & Control); 723 (Computer Software)

91 (ENGINEERING MANAGEMENT); 72 (COMPUTERS & DATA PROCESSING)

16/5/16 (Item 16 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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00919806 E.I. Monthly No: EI8005038558 E.I. Yearly No: EI80056080

**Title:** COMPUTERIZATION IN PLANNING OF MINING OPERATIONS AT DEEP MINES.

**Author:** Astakhov, A. S.; Goyzman, E. I.

**Corporate Source:** Acad of the Natl Economy of the USSR

**Source:** Appl of Comput and Oper Res in the Miner Ind, 16th, Tucson, Ariz, Oct 17-19 1979 Publ by Soc of Min Eng, AIME, New York, NY, 1979 p 365-372

**Publication Year:** 1979

**Language:** ENGLISH

**Journal Announcement:** 8005

**Abstract:** The following specific aims were pursued in developing a computerized system of calendar planning ( scheduling ) of mining operations: (a) Use of a computer to choose and produce a complex (set) of technical and organizing measures ensuring the fulfilment of production and economic requirements which are envisaged in a given variant of the calendar plan (schedule). (b) Computer plotting of schedules of coal winning, development, assembly and degasification operations. (c) **Determination** of optimum spare time for coal face development. (d) Computer calculation of the full list of mining and technical indices for schedules of mining operations. Solutions of these problems are mainly based on simulation methods.

Descriptors: \*MINES AND MINING--\*Computer Simulation

Classification Codes:

502 (Mine & Quarry Equipment & Operations); 504 (Mines & Mining, Metal)  
; 505 (Mines & Mining, Nonmetallic)

50 (MINING ENGINEERING)

16/5/17 (Item 17 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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00775624 E.I. Monthly No: EI7804026390

**Title:** COMPUTERIZED IRRIGATION SCHEDULING USING NEUTRON PROBES.

**Author:** Buchheim, Jerry F.; Ploss, Lowell F.

**Corporate Source:** US Dep of the Inter, Denver, Colo

**Source:** Pap ASAE for Annu Meet, NC State Univ, Raleigh, Jun 26-29 1977. Publ by ASAE, St Joseph, Mich, 1977 Pap 77-2004, 15 p

**Publication Year:** 1977

**CODEN:** AAEPCZ **ISSN:** 0145-0166

**Language:** ENGLISH

**Journal Announcement:** 7804

**Abstract:** A computer-supported irrigation scheduling program has been developed to implement irrigation management services and coordinated water deliveries over large areas. The irrigation scheduling portion entails

frequent field visits for soil moisture verification and a computer printout of an appropriate irrigation schedule. The use of neutron probes is being initiated in several areas to enhance this procedure. Data collected using the probe are a measurement of the moisture present in the soil profile. By knowing the " full " value of the soil and the probe data, moisture depletions can be **determined** at any **time** and used as input to the scheduling program. The neutron probes procedures have been developed to determine such items as soil moisture depletions, crop coefficients, ET adjustments, root decimals, depth to water table, and allowable depletions. Through the use of the neutron probe, the quantity of water **available** to the plant may be **determined** accurately.

Descriptors: \*IRRIGATION--\*Computer Applications; MOISTURE METERS; NEUTRONS--Instruments; PROBES; SCHEDULING

Identifiers: NEUTRON PROBES

Classification Codes:

821 (Agricultural Equipment & Methods); 723 (Computer Software); 944 (Moisture, Pressure & Temperature, & Radiation Measuring Instruments)

82 (AGRICULTURE & FOOD TECHNOLOGY); 72 (COMPUTERS & DATA PROCESSING); 94 (INSTRUMENTS & MEASUREMENT)

**16/5/18 (Item 18 from file: 8)**

DIALOG(R)File 8:EI Compendex(R)

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00394260 E.I. Monthly No: EI7409059556

**Title: COMPUTER SCHEDULING OF VENTILATION EQUIPMENT MAINTENANCE.**

Author: Miller, Floyd G.

Corporate Source: Univ of Ill, Chicago Circle

Source: National Engineer v 78 n 7 Jul 1974 p 5-7

Publication Year: 1974

CODEN: NAENAY ISSN: 0027-9218

Language: ENGLISH

Journal Announcement: 7409

Abstract: The article discusses the findings of the study that was undertaken to **determine** whether enough information was **available** to permit **computerized scheduling** of maintenance for the ventilation systems and examines the concept of **computerized scheduling** as it applies in this case. The preventive maintenance of the filtration system, maintenance scheduling, and application of computer to scheduling are dealt with. 6 refs.

Descriptors: \*VENTILATION; MAINTENANCE; DATA PROCESSING

Identifiers: EQUIPMENT MAINTENANCE

Classification Codes:

643 (Space Heating & Air Conditioning); 723 (Computer Software); 913 (Production Planning & Control)

64 (HEAT & THERMODYNAMICS); 72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT)

**16/5/19 (Item 1 from file: 6)**

DIALOG(R)File 6:NTIS

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2157423 NTIS Accession Number: DE99635219/XAB

**Optimal task mapping in safety-critical real-time parallel systems**  
(THESIS)

Aussagues, C.

CEA Saclay, 91 - Gif-sur-Yvette (France). Dept. d'Electronique et d'Instrumentation Nucleaire.



Corp. Source Codes: 888888888;  
Sponsor: Aix-Marseille-2 Univ., 13 - Marseille (France).  
Report No.: FRCEA-TH-729  
11 Dec 1998 208p  
Languages: French Document Type: Thesis  
Journal Announcement: USGRDR0012; NSA0013  
French.

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NTIS Prices: PC All/MF A03

Country of Publication: United States

This PhD thesis is dealing with the correct design of safety-critical real-time parallel systems. Such systems constitutes a fundamental part of high-performance systems for command and control that can be found in the nuclear domain or more generally in parallel embedded systems. The verification of their temporal correctness is the core of this thesis. Our contribution is mainly in the following three points: the analysis and extension of a programming model for such real-time parallel systems; the proposal of an original method based on a new operator of synchronized product of state machines task-graphs; the validation of the approach by its implementation and evaluation. The work addresses particularly the main problem of optimal task mapping on a parallel architecture, such that the temporal constraints are globally guaranteed, i.e. the timeliness property is valid. The results incorporate also optimally criteria for the sizing and correct dimensioning of a parallel system, for instance in the number of processing elements. These criteria are connected with operational constraints of the application domain. Our approach is based on the off-line analysis of the feasibility of the deadline-driven dynamic scheduling that is used to schedule tasks inside one processor. This leads us to define the synchronized-product, a system of linear constraints is automatically generated and then allows to calculate a maximum load of a group of tasks and then to verify their timeliness constraints. The communications, their timeliness verification and incorporation to the mapping problem is the second main contribution of this thesis. Finally, the global solving technique dealing with both task and communication aspects has been implemented and evaluated in the framework of the OASIS project in the LETI research center at the CEA/Saclay. (author) 96 refs.

Descriptors: Nuclear reactors; \*Reactor Safety; \*Task **Scheduling**; Algorithms; Computer Architecture; **Computerized** Control Systems; Data **Transmission** Systems; Parallel Processing; Real **Time** Systems

Identifiers: EDB/990200; EDB/220400; Theses; NTISDEE

Section Headings: 77H (Nuclear Science and Technology--Reactor Engineering and Nuclear Power Plants)

16/5/20 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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2152659 NTIS Accession Number: PB2000-102465/XAB

**Automated Bus Dispatching, Operations Control and Service Reliability:  
The Initial Tri-Met Experience**

(Final rept)

Strathman, J. G. ; Dueker, K. J. ; Kimpel, T.

TransNow, Seattle, WA.

Corp. Source Codes: 097834000;

Sponsor: Portland State Univ., OR.; Department of Transportation, Washington, DC. Office of the Secretary.

Report No.: TNW-99-06

Oct 1999 36p

Languages: English

Journal Announcement: USGRDR0007

See also PB98-153323. Prepared in cooperation with Portland State Univ., OR. Sponsored by Department of Transportation, Washington, DC. Office of the Secretary.

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NTIS Prices: PC A04/MF A01

Country of Publication: United States

Contract No.: DTRS95-G-0010

The paper presents findings on initial changes in service reliability following Tri-Mets deployment of anew bus system using automatic vehicle location and automatic passenger counter technology. Changes in on-time performance, headway variation, run **time** variation, and tun **times** were **determined** with respect to pre-deployment levels. Changes in headway variation and run times were also used to estimate the initial benefits of the new system with respect to operating costs, passenger awaiting, and passenger travel time.

Descriptors: Dispatching systems; \*Buses; \* **Computerized** scheduling; Mass transportation; **Scheduling** ; Public transportation; Headways; Performance evaluation; **Electronic** monitoring systems; Vehicle location; Benefits; Travel time; Passenger transportation; Transportation planning

Identifiers: \*Automatic vehicle location; \*Automatic passenger counter; \*Service reliability; Computer-aided dispatching; On-time performance; Bus run times; NTISDOTOS; NTISDOTOUR

Section Headings: 85H (Transportation--Road Transportation); 91B (Urban and Regional Technology and Development--Transportation and Traffic Planning); 43G (Problem Solving Information for State and Local Governments--Transportation)

16/5/21 (Item 3 from file: 6)

DIALOG(R)File 6:NTIS

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2063669 NTIS Accession Number: PB98-134752/XAB

**Federal Implementation Guideline for Electronic Data Interchange: ASC X12 003070 Transaction Set 242 Data Status Tracking. Implementation Convention** (Special pub)

Favreau, J. P.

National Inst. of Standards and Technology (ITL), Gaithersburg, MD. Electronic Commerce Acquisition Program Management Office.

Corp. Source Codes: 113284007

Report No.: NIST/SP-881-29

Jan 98 26p

Languages: English

Journal Announcement: GRAI9813

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NTIS Prices: PC A03/MF A01

Country of Publication: United States

This Draft Standard for Trial Use contains the format an establishes the data contents of the Data Status Tracking Transaction Set (242) within the context of an Electronic Data Interchange (EDI) environment. This management transaction set is the vehicle by which the transmission status

information is conveyed by a service request handler to the interchange sender, interchange receiver, or both; it can be used to provide status information regarding interchange as it flows from an interchange sender through one or more service **request** handlers to an interchange **receiver** during its transmission cycle. It can be used by the interchange sender or interchange **receiver** to **request** from a service **request** handler ad hoc or periodic reports containing status information regarding interchanges.

Descriptors: Accounting; \*Information systems; \*Standards; \*Contract administration; \*Procurement; Logistics management; Computer programs; Databases; Data processing; Commerce; Computer networks; Telecommunication; Acquisition; Government agencies; Industries; United States; **Scheduling**; Purchasing; **Electronic** mail

Identifiers: \*EDI(Electronic Data Exchange); \*Electronic Data Exchange; \*Electronic commerce; Draft standard; NTISCOMNBS

Section Headings: 68D (Environmental Pollution and Control--Water Pollution and Control); 74E (Military Sciences--Logistics, Military Facilities, and Supplies); 45C (Communication--Common Carrier and Satellite); 70B (Administration and Management--Management Practice)

16/5/22 (Item 4 from file: 6)

DIALOG(R)File 6:NTIS

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1914567 NTIS Accession Number: PB96-101894

**Followup After Discharge from an Urban Public Hospital. Abstract, Executive Summary, Final Report and Appendices**

(Rept. for 1 Jun 93-31 May 95)

Kiefe, C. I.

Alabama Univ. at Birmingham. Div. of Preventive Medicine.

Corp. Source Codes: 106656009

Sponsor: Agency for Health Care Policy and Research, Rockville, MD.  
Center for Research Dissemination and Liaison.

Report No.: AHCPR-95-91

31 May 95 77p

Languages: English

Journal Announcement: GRAI9601

Sponsored by Agency for Health Care Policy and Research, Rockville, MD.  
Center for Research Dissemination and Liaison.

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NTIS Prices: PC A05/MF A01

Country of Publication: United States

Contract No.: AHCPR-HS-08093-01

Appointment-keeping after hospitalization is a poorly understood link between inpatient and outpatient care. We investigated how health care system and patient characteristics influence this aspect of compliance with medical treatment. All 372 consecutive eligible patients admitted to Medicine wards were interviewed on hospitalization and after the date of their first **appointment** following discharge. The hospital's **electronic** databases were searched and charts were reviewed. Data included sociodemographics, diagnosis, comorbidity, medications, health care access and use, previous compliance behavior, and recommended followup **appointments**. Self-perceived health status was **assessed** on admission and on followup. Followup contact rate was 80%.

Descriptors: \*Patient discharge; \*Hospitalization; \*Discharge(Health facilities); Compliance; Medical treatment

Identifiers: \*Followup; NTISHRAHSR

Section Headings: 44C (Health Care--Community and Population Characteristics); 44N (Health Care--Health Care Utilization)

16/5/23 (Item 5 from file: 6)

DIALOG(R)File 6:NTIS

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1819667 NTIS Accession Number: AD-A281 136/2

On - Line Scheduling on Parallel Machines  
(Doctoral thesis)

Sgall, J.

Carnegie-Mellon Univ., Pittsburgh, PA. Dept. of Computer Science.

Corp. Source Codes: 005343001; 403081

Report No.: CMU-CS-94-144

May 94 119p

Languages: English Document Type: Thesis

Journal Announcement: GRAI9420

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NTIS Prices: PC A06/MF A02

Country of Publication: United States

Contract No.: NSF-CCR91-19319

Given a parallel machine with processors arranged in some particular network topology (e.g., on a mesh machine the processors are arranged in a rectangular grid), we have to execute different parallel jobs. Each job requires some part of the machine (e.g., a mesh of a smaller size), and can be executed on any subset of processors with that network topology. Each job will run for some fixed time, regardless of when we execute it. But we do not know the running times in advance, the only way to **determine** the running **time** of a job is to execute it. Scheduling may also be constrained by dependencies between jobs; it may be the case that a job cannot be started until some other jobs have finished. Our task is to schedule a given set of jobs so that all constraints are satisfied and the total time is as small as possible. The author claims that this model efficient **on - line scheduling** is possible on a variety of different parallel machines, including PRAMs, hypercubes and mesh machines. However, the efficiency depends on various factors, including the presence of dependencies, the combinatorial complexity of the network topology, randomization, the use of virtualization, and the maximal size of jobs.

Descriptors: Parallel processing; \* **Scheduling** ; **Online systems** ; Parallel processors; Theses; Mesh; Optimization

Identifiers: \*Runtime; Network topology; NTISDODXA

Section Headings: 62B (Computers, Control, and Information Theory--Computer Software)

16/5/24 (Item 6 from file: 6)

DIALOG(R)File 6:NTIS

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1766104 NTIS Accession Number: AD-A270 122/5

**Post-Dam System. Volume 5. Harvard Project Manager (HPM)**

(Final rept. 1 Feb 89-1 Mar 91)

Warren, T. L. ; Howard, J. J. ; Merkle, D. H.

Applied Research Associates, Inc., Panama City, FL.

Corp. Source Codes: 096829000; 421378

Oct 92 47p

Languages: English

Journal Announcement: GRAI9402

See also Volume 6, AD-A270 117.

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NTIS Prices: PC A03/MF A01

Country of Publication: United States

Contract No.: F08635-88-C-0067

Mission accomplishment in PACAF and USAFE depends on base recovery capability in a postattack environment. Base recovery includes identifying, analyzing, and repairing facility damage. For facilities critical to sortie generation, this process must be accomplished expediently. In a postattack environment, field information on facility damage is collected and analyzed to determine structural integrity and usability. From this analysis, a repair schedule is developed. This is currently a time consuming process that is shortened by using a computerized system. The scope of this effort was to develop a computerized postattack damage assessment system that recommends repair strategies, keeps inventory of materials and equipment, and schedules repairs based on manpower and equipment availability.

Descriptors: Damage **assessment** ; \*Postattack operations; Missions; Recovery; Repair; **Time** ; **Computerized simulation** ; **Scheduling**

Identifiers: \*Military engineering; \*Military air facilities; HPM(Harvard Project Manager); NTISDODXA

Section Headings: 74G (Military Sciences--Military Operations, Strategy, and Tactics); 74E (Military Sciences--Logistics, Military Facilities, and Supplies)

16/5/25 (Item 7 from file: 6)

DIALOG(R)File 6:NTIS

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1766100 NTIS Accession Number: AD-A270 118/3

**Post-Dam System. Volume 7. TED 1.1 Text Editor**

(Final rept. 1 Feb 89-1 Mar 91)

Warren, T. L. ; Howard, J. J. ; Merkle, D. H.

Applied Research Associates, Inc., Panama City, FL.

Corp. Source Codes: 096829000; 421378

Oct 92 19p

Languages: English

Journal Announcement: GRAI9402

See also Volume 8, AD-A270 119.

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NTIS Prices: PC A03/MF A01

Country of Publication: United States

Contract No.: F08635-88-C-0067

Mission accomplishment in PACAF and USAFE depends on base recovery capability in a postattack environment. Base recovery includes identifying, analyzing, and repairing facility damage. For facilities critical to sortie generation, this process must be accomplished expediently. In a postattack environment, field information on facility damage is collected and analyzed to determine structural integrity and usability. From this analysis, a repair schedule is developed. This is currently a time consuming process that is shortened by using a computerized system. The scope of this effort was to develop a computerized postattack damage assessment system that recommends repair strategies, keeps inventory of materials and equipment, and schedules repairs based on manpower and equipment availability.

Descriptors: Damage **assessment** ; \*Postattack operations; Missions; Recovery; Repair; **Time** ; **Computerized simulation** ; **Scheduling**  
Identifiers: \*Military engineering; \*Military air facilities; NTISDODXA  
Section Headings: 74G (Military Sciences--Military Operations, Strategy, and Tactics); 74E (Military Sciences--Logistics, Military Facilities, and Supplies)

**16/5/26 (Item 8 from file: 6)**

DIALOG(R) File 6:NTIS

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1766096 NTIS Accession Number: AD-A270 114/2

**Post-Dam System. Volume 2. Post-Dam Expert System (PDES)**

(Final rept. 1 Feb 89-1 Mar 91)

Warren, T. L. ; Howard, J. J. ; Merkle, D. H.

Applied Research Associates, Inc., Panama City, FL.

Corp. Source Codes: 096829000; 421378

Oct 92 133p

Languages: English

Journal Announcement: GRAI9402

See also Volume 3, AD-A270 115.

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NTIS Prices: PC A07/MF A02

Country of Publication: United States

Contract No.: F08635-88-C-0067

Mission accomplishment in PACAF and USAFE depends on base recovery capability in a postattack environment. Base recovery includes identifying, analyzing, and repairing facility damage. For facilities critical to sortie generation, this process must be accomplished expediently. In a postattack environment, field information on facility damage is collected and analyzed to determine structural integrity and usability. From this analysis, a repair schedule is developed. This is currently a time consuming process that is shortened by using a computerized system. The scope of this effort was to develop a computerized postattack damage assessment system that recommends repair strategies, keeps inventory of materials and equipment, and schedules repairs based on manpower and equipment availability.

Descriptors: Damage **assessment** ; \*Postattack operations; Missions; Recovery; Repair; **Time** ; **Computerized simulation** ; **Scheduling**

Identifiers: \*Expert systems; \*Military engineering; \*Military air facilities; NTISDODXA

Section Headings: 74G (Military Sciences--Military Operations, Strategy, and Tactics); 74E (Military Sciences--Logistics, Military Facilities, and Supplies)

**16/5/27 (Item 9 from file: 6)**

DIALOG(R) File 6:NTIS

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1766095 NTIS Accession Number: AD-A270 113/4

**Post-Dam System. Volume 1. Introduction to the Post-Dam System**

(Final rept. 1 Feb 89-1 Mar 91)

Warren, T. L. ; Howard, J. J. ; Merkle, D. H.

Applied Research Associates, Inc., Panama City, FL.

Corp. Source Codes: 096829000; 421378

Sponsor: Air Force Engineering and Services Center, Tyndall AFB, FL. Engineering and Services Lab.

Report No.: AFESC/ESL-TR-91-22-VOL-1

Oct 92 68p

Languages: English

Journal Announcement: GRAI9402

See also Volume 2, AD-A270 114.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A04/MF A01

Country of Publication: United States

Contract No.: F08635-88-C-0067

Mission accomplishment in PACAF and USAFE depends on base recovery capability in a postattack environment. Base recovery includes identifying, analyzing and repairing facility damage. For facilities critical to sortie generation, this process must be accomplished expediently. In a postattack environment, field information on facility damage is collected and analyzed to determine structural integrity and usability. From this analysis, a repair schedule is developed. This is currently a time consuming process that is shortened by using a computerized system. The scope of this effort was to develop a computerized postattack damage assessment system that recommends repair strategies, keeps inventory of materials and equipment, and schedules repairs based on manpower and equipment availability.

Descriptors: Damage **assessment** ; \*Postattack operations; Missions; Recovery; Repair; **Time** ; **Computerized simulation** ; **Scheduling**

Identifiers: \*Military engineering; \*Military air facilities; NTISDODXA; NTISDODAF

Section Headings: 74G (Military Sciences--Military Operations, Strategy, and Tactics); 74E (Military Sciences--Logistics, Military Facilities, and Supplies)

**16/5/28 (Item 10 from file: 6)**

DIALOG(R)File 6:NTIS

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1762775 NTIS Accession Number: AD-A269 696/1

**Effects of Management Initiatives on the Costs and Schedules of Defense Acquisition Programs. Volume 1. Main Report**

(Final rept. Mar 90-Nov 92)

Tyson, K. W. ; Om, N. I. ; Gogerty, D. C. ; Nelson, J. R. ; Utech, D. M.  
Institute for Defense Analyses, Alexandria, VA.

Corp. Source Codes: 075311000; 179350

Sponsor: Institute for Defense Analyses, Alexandria, VA.

Report No.: IDA-P-2722-VOL-1

Nov 92 130p

Languages: English

Journal Announcement: GRAI9401

See also Volume 2, AD-A269 697.

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NTIS Prices: PC A07/MF A02

Country of Publication: United States

Contract No.: MDA903-89-C-0003

This two-volume paper examines trends in the outcomes (in terms of costs and schedules) of the acquisition programs for major weapon systems, and assesses the effectiveness of management initiatives in improving these outcomes. IDA analyzed a total of 116 major programs that included a mix of aircraft, tactical munitions, electronics/avionics, strategic missiles,

satellites, vehicles, and ships. In Volume I of the paper, program outcomes are **assessed** by equipment type, by **time** period, by phase (development and production), and by type (new or modification). The initiatives assessed are prototyping, contract incentives, multi-year procurement, design-to-cost, dual-source competition, and total package procurement and fixed-price development. Volume II contains special analyses of ships and ground combat programs. The management initiatives that show the most promise for containing cost and schedule growth are prototyping, contract incentives, and multi-year procurement.

Descriptors: Weapon systems; \*Military procurement; \*Military equipment; Design to cost; Military aircraft; **Electronic** equipment; Department of Defense; **Scheduling** ; Military satellites; Incentive contracts; Ships; Armored vehicles; Production rate; Prototypes; Planning programming budgeting

Identifiers: \*Management; Defense Acquisition; NTISDODXA; NTISDODSD

Section Headings: 74E (Military Sciences--Logistics, Military Facilities, and Supplies); 70B (Administration and Management--Management Practice)

**16/5/29 (Item 11 from file: 6)**

DIALOG(R)File 6:NTIS

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1704779 NTIS Accession Number: AD-A259 002/4

**Intelligent Real-Time System Architecture Implemented in ADA**

(Master's thesis)

Whelan, M. A.

Air Force Inst. of Tech., Wright-Patterson AFB, OH. School of Engineering.

Corp. Source Codes: 000805002; 012225

Report No.: AFIT/GCE/ENG/92D-12

Dec 92 181p

Languages: English Document Type: Thesis

Journal Announcement: GRAI9308

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NTIS Prices: PC A09/MF A02

Country of Publication: United States

Conventional real- **time** systems are fully **deterministic** allowing for off-line, optimal, task scheduling under all circumstances. Real- **time** intelligent systems add non- **deterministic** task execution **times** and non- **deterministic** task sets for scheduling purposes. Non- **deterministic** task sets force intelligent real- **time** systems to trade-off execution time with solution quality during run-time and perform dynamic task scheduling. Four basic design considerations addressing those tradeoffs have been identified: control reasoning, focus of attention, parallelism, and algorithm efficacy. Non-real-time intelligent systems contain an environment sensor, a model of the environment, a reasoning process, and a large collection of procedural processes. Real-time intelligent systems add to these a model of the real-time system's behavior, and a real-time task scheduler. In addition, the reasoning process is augmented with a metaplanner to reason about timing issues using the system's behavioral model. Additionally, real-time deadlines force the inclusion of pluralistic solution methods in the intelligent system to allow multiple responses ranging from reactive to fully reasoned and calculated. This research presents an architecture capable of meeting real-time performance goals with **on - line scheduling** of tasks.... Artificial intelligence, Real-time, Ada, **On - line scheduling** , Knowledge-based systems, Expert



systems.

Descriptors: \*Ada programming language; \*Artificial intelligence; \*Expert systems; \*Computer architecture; Algorithms; Knowledge based systems; Models; Quality; Real time; Scheduling; Trade off analysis; Theses

Identifiers: NTISDODXA

Section Headings: 62A (Computers, Control, and Information Theory--Computer Hardware); 62B (Computers, Control, and Information Theory--Computer Software); 62GE (Computers, Control, and Information Theory--General)

16/5/30 (Item 12 from file: 6)

DIALOG(R) File 6:NTIS

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1645885 NTIS Accession Number: AD-A248 049/9

**Non-Preemptive Time Warp Scheduling Algorithms**

(Interim rept)

Burdorf, C. D. ; Marti, J. B.

RAND Corp., Santa Monica, CA.

Corp. Source Codes: 017909000; 296600

Report No.: RAND/N-3099-A

Jun 90 22p

Languages: English

Journal Announcement: GRAI9214

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NTIS Prices: PC A03/MF A01

Country of Publication: United States

Contract No.: MDA903-91-C-0006

The Time Warp multiprocessing scheme promises speed-up for object-oriented discrete-event simulation. The Concurrent Processing for Advanced Simulation project has constructed a LISP-based Time Warp system for implementing simulations with many large, complex objects. Since many objects share a single processor, the CPU time allocated to each object must be scheduled. Since object events are not preempted, the authors are scheduling which objects have events process rather than CPU time per object. They developed approaches to scheduling, ranging from a simple round-robin mechanism to complex ones involving queue length. The authors developed ten different scheduling algorithms which they named: Worst Case, Conventional Round Robin, Lowest Local Virtual Time (LVT) First, Priority LVT, Largest Queue Priority, Bradford/Fitch, Anti-Penalty, Queue Anti-Penalty, Queue Cycle, and Positive Infinity. Results show that LVT, anti-messages, rollbacks, returned messages, and anti-reminders are good parameters for scheduling of system resources. Input queue size is also an important factor, but when taken with or without LVT, it does not produce results at good as using LVT alone. The round-robin scheduler was one of the worst performers. The poor performance of the simple round-robin scheduler indicates the advantages of using state information to **determine** the scheduling order in the **Time Warp** system. Benchmarks of the schedulers showed that the Anti-Penalty scheduler performed better than the others. The Anti-Penalty algorithm is based on a composite measure of simulation advance rate, flow control, and the appearance of specific message types.

Descriptors: Algorithms; \*Multiprocessors; \* **Scheduling** ; **Computerized simulation** ; Control; Cycles; Flow; Input; Length; Parameters; Penalties; Processing; Rates; Resources; Time; Velocity; Optimization

Identifiers: NTISDODXA

Section Headings: 62B (Computers, Control, and Information

Theory--Computer Software)

16/5/31 (Item 13 from file: 6)

DIALOG(R) File 6:NTIS

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1345057 NTIS Accession Number: AD-A186 137/6

**Problem Solving Project to Determine if the Central Appointment System Adequately Supports the Outpatient Workload Reporting Requirements at Tripler Army Medical Center**

(Rept. for Jul 79-Apr 8)

Reamey, H. K.

Army Health Care Studies and Clinical Investigation Activity, Fort Sam Houston, TX.

Corp. Source Codes: 077969000; 413681

Report No.: HCSIA-6-87

21 Apr 80 76p

Languages: English

Journal Announcement: GRAI8806

Original contains color plates: All DTIC and NTIS reproductions will be in black and white.

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NTIS Prices: PC A05/MF A01

Country of Publication: United States

This paper analyzed an **automated** central **appointment** system and its ability to support outpatient workload reporting requirements at an Army teaching hospital. The author studied various alternatives and presented disadvantages and advantages to all of the alternatives.

Descriptors: \*Scheduling; \*Biomedical information systems; Problem solving; Army; Automation; Education; Hospitals; Reports; Patients; Outpatient clinics; Medical laboratories; Computer applications; Information systems; Medical services; Problem solving; Workload

Identifiers: \*Outpatients; NTISDODXA

Section Headings: 44T (Health Care--Data and Information Systems); 88B (Library and Information Sciences--Information Systems)

16/5/32 (Item 14 from file: 6)

DIALOG(R) File 6:NTIS

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1218285 NTIS Accession Number: AD-A161 914/7

**Risk Assessment Preprocessor (RAPP)**

Hammon, C. ; Augusta, J. ; Fitzgerald, S.

Administrative Sciences Corp., Springfield, VA.

Corp. Source Codes: 078418000; 407615

1985 14p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI8606

Presented at the Annual Dept. of Defense Cost Analysis Symposium (19th), Leesburg, VA, 17-20 Sep 85.

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NTIS Prices: PC A02/MF A01

Country of Publication: United States

The Navy's Office for Acquisition Research tasked Administrative Sciences Corporation to develop 'a management oriented procedure to simplify the selection of the most appropriate risk assessment technique(s) so that project managers will use them to improve management of their programs.' Under this tasking the different techniques **available** for risk **assessment** were examined and it was concluded that network simulation is both cost effective and feasible for use in almost all acquisition programs. As a result of a critical review of the existing procedures and available software packages, it was concluded that 'front-end' help in getting started was necessary - specifically, assistance in network creation and data preparation and input. The Risk Assessment Preprocessor (RAPP) was created to provide this help. RAPP is a computer-based procedure for simplifying the process of creating networks and preparing the data for use with a network simulator. RAPP is interactive, easy to use software which will help the user create a network of program activities and input distribution parameters. It does not actually do the risk assessment. RAPP's output is a data file which is input to one of the several currently available network simulators. It is a tool that makes risk assessment using Monte Carlo simulation easier and less expensive because it reduces the need for senior analysts to structure the network and prepare the data file for input to a risk assessment package. RAPP allows risk assessment to be used more easily as a tool for project management.

Descriptors: Network analysis(Management); \*Cost analysis; \*Risk; Computer programs; Preprocessing; **Scheduling**; Symposia; Estimates; Monte carlo method; **Computerized** simulation

Identifiers: \*Project management; \*Acquisition; RAPP(Risk Assessment Preprocessor); Navy; NTISDODXA

Section Headings: 74E (Military Sciences--Logistics, Military Facilities, and Supplies); 70B (Administration and Management--Management Practice)

16/5/33 (Item 15 from file: 6)

DIALOG(R)File 6:NTIS

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1075753 NTIS Accession Number: AD-A134 398/7

**Interrange Scheduling and Universal Documentation System (UDS) Document Development and Transmission**

Range Commanders Council, White Sands Missile Range, NM. Inter-Range Operations Group.

Corp. Source Codes: 013429040; 413821

Report No.: RCC/IOG-551-83

1983 174p

Languages: English

Journal Announcement: GRAI8404

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NTIS Prices: PC A08/MF A01

Country of Publication: United States

One of the original tasks assigned to the recently established Interrange Operations Group (IOG) was to determine an approach to (1) achieve individual, compatible, **automated** range **scheduling** systems to support increased interranger operations, (2) develop mechanized range documentation systems that will significantly reduce the manual effort required to develop, print, and distribute Universal Documentation System (UDS) documents, and (3) initiate the action to acquire the needed capability at all member ranges involved in interranger operations. A subgroup was established to conduct a survey of the Major Range and Test Facility Bases

(MRTFBs) and **determine** what each organization has **available** in automated range management systems. This study included an analysis of these systems to determine the feasibility of information exchange/transfer by electronic means. In view of the work already completed by the RCC Documentation Group (DG) on Mechanized Range Documentation, this effort was limited to the Mechanized Range Scheduling System (MRSS) and the communications needs between systems. (Author)

Descriptors: \*Guided missile ranges; \*Scheduling; \*Information exchange; Military facilities; Military research; Military operations; Data transmission systems; Data processing; Documents; Standards

Identifiers: \*Interrange operations; NTISDODXA

Section Headings: 75C (Missile Technology--Missile Launching and Support Systems)

16/5/34 (Item 16 from file: 6)

DIALOG(R) File 6:NTIS

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0877840 NTIS Accession Number: AD-A093 464/6/XAB

**A Preliminary Implementation of POSER**

Bevan, S. J.

Royal Signals and Radar Establishment, Malvern (England).

Corp. Source Codes: 053783000; 409929

Sponsor: Defence Research Information Centre, Orpington (England).

Report No.: RSRE-MEMO-3272; DRIC-BR-76603

Sep 80 18p

Languages: English

Journal Announcement: GRAI8111

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NTIS Prices: PC A02/MF A01

Country of Publication: United Kingdom

POSER is a process organisation to simplify error recovery intended for use in fault - tolerant, distributed computer systems running real - time programs. This memorandum describes the process organisation used in POSER and how the organisation has been experimentally implemented in a multi-computer simulation. Application program design has been studied by producing a large radar tracking program which runs on the POSER simulation. A version of the radar program exists in MASCOT and some comparisons of the two complete programs have been made. Finally, some broad comparisons of the MASCOT and POSER methods are made. (Author)

Descriptors: Computer architecture; \*Fault tolerant computing; Error analysis; Recovery; Computer communications; Data **transmission** systems; Real **time** ; Multiprocessors; Nodes; Data management; **Computerized** simulation; Routing; **Scheduling** ; Parallel processing; Computer programs; Flow charting; Computer files

Identifiers: \*Foreign technology; \*Distributed data processing; Poser operating system; NTISDODXA

Section Headings: 62B (Computers, Control, and Information Theory--Computer Software)

16/5/35 (Item 17 from file: 6)

DIALOG(R) File 6:NTIS

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0778703 NTIS Accession Number: AD-A071 576/3/XAB

**Automated Course Scheduling System for Naval Training**

Lin, B. W. ; Hodak, G. W.

Rutgers - the State Univ Piscataway NJ Coll of Engineering

Corp. Source Codes: 393493

Sponsor: Training Analysis and Evaluation Group (Navy), Orlando, FL

Report No.: TAEG-72

Jun 79 107p

Languages: English

Journal Announcement: GRAI7924

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NTIS Prices: PC A06/MF A01

Contract No.: N61339-78-C-0029

Throughout the Naval Education and Training Command (NAVEDTRACOM), generation and maintenance of a feasible schedule for Navy training courses is labor-intensive. Minimal guidance is provided, resulting in scheduling processes subject to the vagaries of individual style and competency. In view of these problems, an effort is being made to develop a scheduling methodology that will assist Navy training-complex personnel in achieving an optimal/quasi-optimal schedule in a quick and easy way. The **Automated Course Scheduling System (ACSS)** was developed to relieve Naval training personnel from the burden of the labor-intensive scheduling process and provide them with the capability of studying all possible schedules to achieve better utilization of school resources. The ACSS is a high-level, interactive, and user-oriented system intended for use at the school level. Its design is based on limited and low-cost hardware requirements. The system can be implemented readily on a Wang 2200 system with a dual floppy diskette drive and requires a memory of 16-K bytes. With the support of a number of data bases, the ACSS can be used to perform: (1) random retrieval of training-course data; (2) feasibility **assessment** of training demands under **available** resources, (3) documentation of schedule work sheets, and (4) editing and printing of schedules. Presently the research effort is directed toward evaluating and field-testing the system.

Descriptors: \*Naval training; \*Scheduling; \*Man computer interface; Automation; Resource management; User needs; Data bases; Digital computers

Identifiers: Wang-2200 computers; Courses(Education); Training management ; User manuals; NTISDODXA; NTISDODN

Section Headings: 92A (Behavior and Society--Job Training and Career Development)

16/5/36 (Item 18 from file: 6)

DIALOG(R)File 6:NTIS

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0761137 NTIS Accession Number: HRP-0028479/4/XAB

**Using Simulation in Hospital Planning**

Alessandra, A. J. ; Grazman, T. E. ; Parameswaran, R. ; Yavas, U.  
San Diego Univ., CA.

Sponsor: University of West Florida, Pensacola.; Michigan Univ.-Dearborn.  
; Ball State Univ., Muncie, IN.

1978 6p

Languages: English Document Type: Journal article

Journal Announcement: GRAI7916

Pub. in Simulation v30 n2 p62-67 Feb 78.

NTIS Prices: Not available NTIS

The use of computer simulation in solving hospital patient flow problems is illustrated. The personnel and patient services scheduling of a hospital family planning clinic was poorly managed so that the clinic fluctuated between overcrowding and inactivity. A computer model developed at minimum

cost was based on consideration of the physical facilities and on data from hospital records, interviews, and observations of 585 patient visits. Patients were divided into categories, arrival patterns with **time** variations were **determined**, arrivals were classified into groups, and service times were derived, resulting in a multistage, two-channel system with infinite capacity. Seven alternatives to the system developed were computer tested by comparing outputs, and taking into consideration weighted factors (line length, time in waiting lines, idle desk time, and comparison of observed and simulated service times and of actual and simulated patient arrivals). An alternative with minor scheduling and no staffing changes was selected by the clinic's management. The advantages of simulation were improved administration understanding of clinic operations and procedural change effects. Seven tables and one figure are supplied.

Descriptors: \*Hospital administration; Administration; Data analysis; Data processing systems; Data processing; Family planning; Health care delivery organizations; Health care services; Health care; Hospital administrators; Long term care administrators; Mathematical models; Methodology; Operations research; Personal health services; Social services; Systems analysis; Reprints

Identifiers: **Computerized** simulation; \*Health planning; \* **Scheduling**; HRP/TBCECAA; HRP/ZJ; HRP/UAA; HRP/KPB; HRP/GEYO; HRP/OC/XHA; Patients; NTISHRANHP

Section Headings: 44T (Health Care--Data and Information Systems); 62GE (Computers, Control, and Information Theory--General)

**16/5/37 (Item 19 from file: 6)**

DIALOG(R) File 6:NTIS

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0667191 NTIS Accession Number: HRP-0019364/9/XAB

**Cyclic Scheduling**

Morrish, A. R. ; O'Connor, A. R.

Harper Hospital, Detroit, Mich.

1969 6p

Document Type: Journal article

Journal Announcement: GRAI7803

Pub. in Hospitals, Jnl. of the American Hospital Association v44 p66-71  
16 Feb 70.

NTIS Prices: Not available NTIS

Computerized techniques were employed in the implementation of a cyclic scheduling program for nursing service personnel at the Harper Hospital in Detroit, Mich. In 1963, it was **determined** that centralized **time** planning would free head nurses for patient care and staff development. A cyclical 7-week, days-off pattern of scheduling was designed, and a pool system of float personnel to insure the assignment of an adequate number of personnel during each shift was developed. Changes were made in nursing service staffing policies where necessary. Head nurses were included in every step of the planning for an **automated scheduling** system so they would understand that such a system would not reduce their authority. The first computerized schedules were developed for 20 medical - surgical units of the hospital for the 4-week period beginning February 16, 1964. An employee evaluation of the schedules 1 year later resulted in the formulation of 12-week time plans. A days-off pattern was assigned to every nursing employee to enable the computer to schedule adequate staff for each unit on each shift. The operation of the cyclical scheduling program is detailed. Sample computer printouts are included. It is estimated that the clerical cost of an all manual scheduling system would exceed the cost of the computerized system.

Descriptors: \*Nurses; State regions; Registered nurses; Personnel management; Michigan; Methodology; Management methods; Health occupations;

Health care; Health care delivery organizations; Data processing; Data processing systems; Reprints

Identifiers: \*Scheduling; HRP/TBC; HRP/ZJ; HRP/UH; HRPGE0/YMI; HRPGE0/YCN ; HRPOCC/XDDA; HRPOCC/XDACD; Hospitals; NTISHRANHP

Section Headings: 44T (Health Care--Data and Information Systems)

**16/5/38 (Item 20 from file: 6)**

DIALOG(R)File 6:NTIS

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0596843 NTIS Accession Number: AD-A032 461/6/XAB

**A Model to Forecast Computer Usage by the Air Force Institute of Technology**

(Master's thesis)

Anderson, T. E. ; Purnell, G. A.

Air Force Inst of Tech Wright-Patterson AFB Ohio School of Systems and Logistics

Corp. Source Codes: 012250

Report No.: SLSR-21-76B

Sep 76 107p

Document Type: Thesis

Journal Announcement: GRAI7705

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NTIS Prices: PC A06/MF A01

This thesis analyzes the growth rate of usage of the Air Force Logistics Command CREATE computer system by the Air Force Institute of Technology. The analysis uses exponential smoothing in **time** series forecasting, linear regression to **determine** the effect of changes in the number of batch jobs or hours of time sharing on the amount of each parameter used such as Core, central processing unit and input-output, and interviews of the faculty and staff to determine curriculum and policy changes not reflected in the historical data base of computer usage. The data base for the analysis was the thirty-month period from January, 1974, to June, 1976. The forecast was for the twelve-month period from July, 1976, to June 1977. The results showed a slight increase in most parameters over the forecast period. It was concluded that the time series forecast held promise for computer usage prediction and may have application in scheduling of computer systems.

Descriptors: Utilization; \*Computer applications; \*Forecasting; Air Force training; Rates; Air Force Logistics Command; Mathematical prediction; Time series analysis; Linear regression analyses; Air Force equipment; Time sharing; Batch processing; Data management; **Scheduling** ; Allocations; Air Force planning; **Computerized** simulation; Computer aided instruction; Analog computers; Digital computers; Theses

Identifiers: Air Force Institute of Technology; CREATE computer program; NTISDODXA

Section Headings: 62A (Computers, Control, and Information Theory--Computer Hardware); 62B (Computers, Control, and Information Theory--Computer Software); 92A (Behavior and Society--Job Training and Career Development)

**16/5/39 (Item 21 from file: 6)**

DIALOG(R)File 6:NTIS

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0487156 NTIS Accession Number: AD-A006 345/3/XAB

**A Simulation of the Emergency Clinic and Department of Primary Care at the Wright-Patterson AFB Medical Center**

(Master's thesis)

Brown, T. L. ; Dyer, D. R.

Air Force Inst of Tech Wright-Patterson AFB Ohio School of Systems and Logistics

Corp. Source Codes: 012250

Report No.: SLSR-17-75A

Jan 75 191p

Document Type: Thesis

Journal Announcement: GRAI7509

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NTIS Prices: PC A09/MF A01

The thesis concerns the development of a computer simulation model of the Emergency Clinic and Department of Primary Care of the Wright-Patterson AFB Medical Center in search of a way to reduce patient waiting time. The authors **determined** that by revising medical personnel work schedules and by implementing a telephone scheduling system for patients, waiting time could be reduced considerably.

Descriptors: Outpatient clinics; **Computerized** simulation; **Scheduling**; Patients; Physicians; Medical personnel; Time studies; Air Force operations; Military medicine; Theses

Identifiers: \*Emergency medical care; NTISDODAF

Section Headings: 95G (Biomedical Technology and Human Factors Engineering--Protective Equipment)

**16/5/40 (Item 22 from file: 6)**

DIALOG(R)File 6:NTIS

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0422360 NTIS Accession Number: AD-772 896/7/XAB

**Automated Scheduling of Maintenance Events: Status of Fitzsimons Hospital Study**

(Final rept)

Vokac, T. J. ; Colver, R. J.

Army Construction Engineering Research Lab Champaign Ill

Corp. Source Codes: 405279

Report No.: CERL-TR-A-22

Dec 73 139p

Journal Announcement: GRAI7406

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NTIS Prices: PC A07/MF A01

Contract No.: RDT/E-4-A-062103-A-891; 4-A-062103-A-89104

The report documents the collection and analysis of equipment maintenance data at Fitzsimons Army General Hospital, Denver, Colorado, between Jul 1972 and February 1973. The report contains initial data collection and analysis for planning, scheduling, and monitoring of maintenance resources and their utilization through application of a Construction Engineering Research Laboratory (CERL)-developed maintenance simulation system, Onsite Management Records System (OMRS); and analyzing maintenance data to **determine availability** /reliability (A/R) of critical systems using A/R programs developed for analysis of Ballistic Missile Defense support systems. Results included identification of equipment and required



maintenance events, preliminary scheduling runs, and the identification of requirements for effective, onsite A/R analysis. (Author)

Descriptors: \*Hospitals; \*Scheduling; \*Maintenance; Computers; Computer programming; Data processing

Identifiers: Computer aided analysis; NTISA

Section Headings: 57E (Medicine and Biology--Clinical Medicine); 70C (Administration and Management--Management Information Systems)

16/5/41 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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08912151 Genuine Article#: 344KG Number of References: 10

Title: **Simple on - line scheduling algorithms for all-optical broadcast-and-select networks**

Author(s): Marsan MA (REPRINT) ; Bianco A; Leonardi E; Neri F; Nucci A

Corporate Source: POLITECN TURIN,DIPARTIMENTO ELETTRON/I-10129

TURIN//ITALY/ (REPRINT)

Journal: EUROPEAN TRANSACTIONS ON TELECOMMUNICATIONS, 2000, V11, N1 (JAN-FEB), P109-116

ISSN: 1120-3862 Publication date: 20000100

Publisher: ASSOC ELETTRONICA ED ELETTRONICA ITALIANA, VIALE MONZA 259, 20126 MILAN, ITALY

Language: English Document Type: ARTICLE

Geographic Location: ITALY

Subfile: CC ENGI--Current Contents, Engineering, Computing & Technology

Journal Subject Category: TELECOMMUNICATIONS

Abstract: This paper considers all-optical broadcast networks providing a number of slotted WDM channels for packet communications. Each network user is equipped with one tunable transmitter and one fixed receiver, so that full connectivity can be achieved by tuning **transmitters** to the different wavelengths. Tuning **times** are not negligible with respect to the slot time. A centralized network controller allocates slots in a TDM/WDM frame according to (long-term) bandwidth requests issued by users. **Simple on - line transparent scheduling** strategies are proposed, which accommodate bandwidth **requests** when they are **received** (on-line approach), with the constraint of not affecting existing allocations when a new request is served (transparency). Strategies that attempt to allocate in contiguous slots all the transmissions of each source on one wavelength reduce overheads, are simple, and provide good performance. Even better performance can be achieved, at the cost of a modest complexity increase, when the transparency constraint is not strictly imposed, i.e., when a full re-allocation of existing connections is performed once in a while.

Identifiers--KeyWord Plus(R): TRANSCEIVER TUNING LATENCIES; WDM NETWORKS

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PIERIS GR, 1994, V2, P105, IEEE ACM T NETWORK

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16/5/42 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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07483807 Genuine Article#: 171NW Number of References: 18

**Title: A survey of dental practitioners on their use of electronic mail**

Author(s): Muhumuza R (REPRINT) ; Moles DR; Bedi R

Corporate Source: UNIV LONDON, EASTMAN DENT INST ORAL HLTH CARE SCI/LONDON  
WC1X 8LD//ENGLAND/ (REPRINT)

Journal: BRITISH DENTAL JOURNAL, 1999, V186, N3 (FEB 13), P131-134

ISSN: 0007-0610 Publication date: 19990213

Publisher: PROF SCI PUBL, TAVISTOCK HOUSE EAST, TAVISTOCK SQUARE, LONDON  
WC1H 9JR, ENGLAND

Language: English Document Type: ARTICLE

Geographic Location: ENGLAND

Subfile: CC CLIN--Current Contents, Clinical Medicine;

Journal Subject Category: DENTISTRY, ORAL SURGERY & MEDICINE

**Abstract:** Objectives To assess the feasibility of using electronic-mail as a tool for surveying dental practitioners; to **determine** both response rates and response **times** for this method; and provide baseline information on e-mail usage.

Method Self-administered questionnaire distributed by e-mail to 309 practitioners on Monday morning, 1 June 1998.

Results 53.4% response rate within 1 month; 10.2% of replies were sent within 2 hours; and nearly half the replies were sent within 48 hours. Qualified dentists were more likely to respond early than undergraduates. The most popular point of access for e-mail was home (69.1%). The majority of responders (56.8%) use e-mail every day with 1 in 7 (14.2%) using it at least four times a day. 72.4% stated that they found e-mail useful for communicating with professional bodies, while 41.3% used it to communicate with colleagues about patients and patient referrals. 34.0% found e-mail useful for ordering goods, and supplies and 14.6% were using **electronic** mail to make patient **appointments** at least some of the time.

Conclusions Responses can be obtained at much greater speed. than conventional postal techniques will allow, but response rates were only 53.4%. E-mail is predominately used at home and for inter-professional communications, only a small proportion of responders use it for direct communication with patients.

Identifiers--KeyWord Plus(R): HEALTH

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DOWNES PK, 1998, V185, P117, BRIT DENT J  
DOWNES PK, 1998, V185, P163, BRIT DENT J  
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16/5/43 (Item 3 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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05470497 Genuine Article#: WB184 Number of References: 38

**Title: CODING FOR INTERACTIVE COMMUNICATION**

Author(s): SCHULMAN LJ

Corporate Source: GEORGIA INST TECHNOL, COLL COMP/ATLANTA//GA/30332; UNIV  
CALIF BERKELEY, DIV COMP SCI/BERKELEY//CA/94720

Journal: IEEE TRANSACTIONS ON INFORMATION THEORY, 1996, V42, N6 (NOV), P  
1745-1756

ISSN: 0018-9448

Language: ENGLISH Document Type: ARTICLE

Geographic Location: USA

Subfile: Science Citation Index; SciSearch; CC ENGI--Current Contents,  
Engineering, Technology & Applied Sciences

Journal Subject Category: ENGINEERING, ELECTRICAL & ELECTRONIC

Abstract: Let the input to a computation problem be split between two  
processors connected by a communication link; and let an interactive  
protocol  $\pi$  be known by which, on any input, the processors can solve  
the problem using no more than  $T$  transmissions of bits between them,  
provided the channel is noiseless in each direction. We study the  
following question: If in fact the channel is noisy, what is the effect  
upon the number of transmissions needed in order to solve the  
computation problem reliably?

Technologically this concern is motivated by the increasing  
importance of communication as a resource in computing, and by the  
tradeoff in communications equipment between bandwidth, reliability,  
and expense.

We treat a model with random channel noise. We describe a  
deterministic method for simulating noiseless-channel protocols on  
noisy channels, with only a constant slowdown. This is an analog for  
general interactive protocols of Shannon's coding theorem, which deals  
only with data transmission, i.e., one-way protocols.

We cannot use Shannon's block coding method because the bits  
exchanged in the protocol are **determined** only one at a **time**,  
dynamically, in the course of the interaction. Instead, we describe a  
simulation protocol using a new kind of code, explicit tree codes.

Descriptors--Author Keywords: INTERACTIVE COMMUNICATION ; CODING THEOREM ;  
TREE CODE ; DISTRIBUTED COMPUTING ; RELIABLE COMMUNICATION ; ERROR  
CORRECTION

Identifiers--KeyWords Plus: RELIABLE COMPUTATION; NETWORKS

Research Fronts: 95-7121 002 (INFORMATION ENTROPIES; PREDICTION  
FUNCTIONS; QUANTUM CODING)

95-2459 001 (SECRET SHARING SCHEMES; UNIVERSAL LOSSY SOURCE-CODING;  
RATES OF CONVERGENCE)

95-5866 001 (COMMUNICATION COMPLEXITY; FAST DETERMINISTIC PROCESSOR  
ALLOCATION; SUM-TYPE FUNCTIONS INVARIANT)

95-7806 001 (OPTIMAL **ONLINE SCHEDULING** ALGORITHM; TOLERATING SENSOR  
TIMING FAULTS IN HIGHLY RESPONSIVE HARD REAL-TIME SYSTEMS; ATM  
NETWORKS)

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16/5/44 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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05232424 Genuine Article#: VJ860 Number of References: 13  
**Title:** ONLINE SCHEDULING OF IMPRECISE COMPUTATIONS TO MINIMIZE ERROR  
**Author(s):** SHIH WK; LIU JWS  
**Corporate Source:** NATL TSING HUA UNIV, DEPT COMP SCI/HSINCHU 30043//TAIWAN/;  
 UNIV ILLINOIS, DEPT COMP SCI/URBANA//IL/61801  
**Journal:** SIAM JOURNAL ON COMPUTING, 1996, V25, N5 (OCT), P1105-1121  
**ISSN:** 0097-5397  
**Language:** ENGLISH **Document Type:** ARTICLE  
**Geographic Location:** TAIWAN; USA  
**Subfile:** SciSearch; CC ENGI--Current Contents, Engineering, Technology &  
 Applied Sciences  
**Journal Subject Category:** COMPUTER SCIENCE, THEORY & METHODS; MATHEMATICS,  
 APPLIED  
**Abstract:** This paper describes three algorithms for scheduling preemptive,  
 imprecise tasks on a processor to minimize the total error. Each  
 imprecise task consists of a mandatory task followed by an optional  
 task. Some of the tasks are on-line; they arrive after the processor  
 begins execution. The algorithms assume that when each new on-line task  
 arrives, its mandatory task and the portions of all the mandatory tasks  
 yet to be completed at the time can be feasibly scheduled to complete  
 by their deadlines. The algorithms produce for such tasks feasible  
 schedules whose total errors are as small as possible. The three  
 algorithms are designed for three types of task systems: (1) when every

task is on-line and is ready upon its arrival, (2) when every on-line task is ready upon arrival but there are also off-line tasks with arbitrary ready times, and (3) when on-line tasks have arbitrary ready times. Their running times are  $O(n \log n)$ ,  $O(n \log n)$ , and  $O(n \log(2n))$ , respectively.

Descriptors--Author Keywords: REAL- TIME SYSTEMS ; SCHEDULING TO MEET DEADLINES ; DETERMINISTIC SCHEDULING ; ONLINE SCHEDULING

Identifiers--KeyWords Plus: ALGORITHMS

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16/5/45 (Item 5 from file: 34)

DIALOG(R) File 34:SciSearch(R) Cited Ref Sci

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04045789 Genuine Article#: QK650 Number of References: 24

Title: **EXPERIMENTAL INVESTIGATION OF AN FMS DUE-DATE SCHEDULING PROBLEM - AN EVALUATION OF DUE-DATE ASSIGNMENT RULES**

Author(s): SABUNCUOGLU I; HOMMERTZHEIM DL

Corporate Source: BILKENT UNIV, DEPT IND ENGN/ANKARA 06533//TURKEY//; WICHITA STATE UNIV, DEPT IND ENGN/WICHITA//KS/67208

Journal: INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING, 1995, V8, N2 (MAR-APR), P133-144

ISSN: 0951-192X

Language: ENGLISH Document Type: ARTICLE

Geographic Location: TURKEY; USA

Subfile: SciSearch; CC ENGI--Current Contents, Engineering, Technology & Applied Sciences

Journal Subject Category: COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS; ENGINEERING, MANUFACTURING; OPERATIONS RESEARCH & MANAGEMENT SCIENCE

Abstract: This paper investigates the performance of due-date assignment rules in a flexible manufacturing system (FMS). Although emphasis is placed on a comparison of due-date assignment rules, machine and **automated** guided vehicle (AGV) **scheduling** rules are also evaluated under various experimental conditions using an FMS simulation model. The mean job tardiness is the measure of performance by which the rules are compared. The sensitivity to AGV workload, buffer capacity, and processing **time** distribution is also investigated to **assess** the robustness of the due- **date** assignment rules.

Identifiers--KeyWords Plus: FLEXIBLE MANUFACTURING SYSTEMS; JOB TARDINESS; SHOP

Research Fronts: 93-0205 001 (SINGLE-MACHINE SCHEDULING; BOUND ALGORITHM FOR MINIMIZING MEAN TARDINESS; APPLICATION-SPECIFIC HETEROGENEOUS MULTIPROCESSOR SYSTEMS)

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16/5/46 (Item 6 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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03862541 Genuine Article#: QM309 Number of References: 18

**Title: ON NONPREEMPTIVE SCHEDULING OF RECURRING TASKS USING INSERTED IDLE TIMES**

Author(s): HOWELL RR; VENKATRAO MK

Corporate Source: KANSAS STATE UNIV AGR & APPL SCI, DEPT COMP & INFORMAT  
 SCI/MANHATTAN//KS/66506

Journal: INFORMATION AND COMPUTATION, 1995, V117, N1 (FEB 15), P50-62  
 ISSN: 0890-5401

Language: ENGLISH Document Type: ARTICLE

Geographic Location: USA

Subfile: SciSearch; CC ENGI--Current Contents, Engineering, Technology &  
 Applied Sciences

Journal Subject Category: MATHEMATICS, APPLIED; COMPUTER SCIENCE,  
 INFORMATION SYSTEMS

**Abstract:** We consider the problem of non-preemptively scheduling periodic and sporadic task systems on one processor using inserted idle times. For periodic task systems, we prove that the decision problem of determining whether a periodic task system is schedulable for all start times with respect to the class of algorithms using inserted idle times is NP-hard in the strong sense, even when the deadlines are equal to the periods. We then show that if there exists a polynomial time scheduling algorithm which correctly schedules a periodic task system  $T$  whenever  $T$  is feasible for all start times, then  $P = NP$ . We also prove that with respect to the same class of algorithms, the problem of **determining** whether there exist start **times** for which a periodic task system is feasible is also NP-hard in the strong sense even when the deadlines are equal to the periods. The second part of the paper concentrates on sporadic task systems and inserted idle times. It seems reasonable to suppose that to insert idle times properly, knowledge of future releases of tasks is required. Thus, inserted idle times should not be expected to have much use in scheduling sporadic task systems. We provide a formal basis for these intuitions by proving that if a sporadic task system is schedulable by an online algorithm that uses inserted idle times, then it is schedulable by an online algorithm that

File 256:SoftBase:Reviews,Companies&Prods. 82-2004/Apr  
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Set	Items	Description
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S2	83717	SERVICE()PROVIDER? OR WEBHOST? OR WEB()HOST? OR ISP OR INTERNET()SERVICE()PROVIDER? OR PROVIDER OR PROVIDERS
S3	2716	(RECEIVE? ? OR RECEIVING OR TRANSMIT? OR TRANSMIS? OR SEND? ? OR SENDING) (5N)REQUEST? ?
S4	2763	(TRANSMIT? OR TRANSMIS? OR SEND? ?OR SENDING) (5N) (VERIF? OR CONFIRM? OR ACKNOWLEDG?)
S5	16562	(TRANSMIT? OR TRANSMIS? OR SEND? ? OR SENDING) (5N) (TIME OR TIMES OR DATE OR DATES)
S6	55231	(DETERMIN? OR ASSESS?) (5N) (AVAILABLE? OR AVAILABILITY OR TIME OR TIMES OR DATE OR DATES OR APPOINTMENT?)
S7	209	AU=(TAM, T? OR TAM T? OR MOK, R? OR MOK R? OR LUK, S? OR LUK S?)
S8	64	S1 AND S2
S9	1	S8 AND (S3 OR S4 OR S5 OR S6)
S10	41	S8 NOT PY>2000
S11	29	RD (unique items)
S12	28	S11 NOT S9
S13	52	S1 AND (S3 OR S4 OR S5 OR S6)
S14	51	S13 NOT (S9 OR S11)
S15	37	S14 NOT PY>2000
S16	35	RD (unique items)
S17	0	S7 AND S1

9/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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4829944 INSPEC Abstract Number: B9501-6210L-016, C9501-5620M-003

**Title: Real-time communication services in a DQDB network**

Author(s): Carmo, R.L.R.; Vasques, F.; Juanole, G.

Author Affiliation: Lab. d'Autom. et d'Anal. des Syst., CNRS, Toulouse, France

p.249-58

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1994 Country of Publication: USA x+299 pp.

ISBN: 0 8186 6600 5

U.S. Copyright Clearance Center Code: 1052-8725/94/\$04.00

Conference Title: Proceedings Real-Time Systems Symposium

Conference Sponsor: IEEE Comput. Soc. Tech. Committee on Real-Time Syst

Conference Date: 7-9 Dec. 1994 Conference Location: San Juan, Puerto Rico

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: Addresses the problem of **transmitting** real-time periodic traffic in a DQDB network. In a DQDB network, connection-oriented isochronous services use the pre-arbitrated (PA) access. The standard specifies that isochronous connections must have guaranteed periodic bandwidth but mechanisms to provide it, such as the slot allocation scheme, are not described. We propose a real-time **service provider** (RTSP) based on the use of the PA access. The RTSP consists of an off-line centralized **scheduling** algorithm and an **on - line** mode change algorithm which allows to take into account load changes. Means are also provided to guarantee a minimum fairness level for the asynchronous traffic. (10 Refs)

Subfile: B C

Descriptors: access protocols; metropolitan area networks; online operation; real-time systems; scheduling; telecommunication services; telecommunication traffic

Identifiers: real-time communication services; DQDB network; real-time periodic traffic; connection-oriented isochronous services; pre-arbitrated access; guaranteed periodic bandwidth; slot allocation scheme; real-time **service provider**; off-line centralized scheduling algorithm; online mode change algorithm; load changes; minimum fairness level; asynchronous traffic

Class Codes: B6210L (Computer communications); B6150M (Protocols); C5620M (Metropolitan area networks); C5640 (Protocols)

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12/5/1 (Item 1 from file: 256)  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00127831 DOCUMENT TYPE: Review

PRODUCT NAMES: Portals (840564)

TITLE: Portals Help Integrate Interdependent Applications  
AUTHOR: Edelman, Russell Jussila, Tapani  
SOURCE: Information Week, v816 p110(4) Dec 11, 2000  
ISSN: 8750-6874  
HOMEPAGE: <http://www.informationweek.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Corporate portals can help interrelate applications and provide one central point for process initiation. Corporate portals are not meant to get rid of applications but to provide one place that allows access to all company resources while allowing users to have a 'truly personalized experience that allows broad searching of structured and unstructured information, a centralized point for linking to a collection of applications, and a method for initiating processes that transcend multiple applications.' Most portal providers offer the following abilities: business intelligence; transaction integration and processing; taxonomy creation; collaboration; cross-repository searching; document management; integration and compliance with global directory services; links to Web sites personalization; single sign-on; subscriptions; and syndication. Products highlighted include Coreport 3.2 from Corechange; Corporate Portal 4.0 from Plumtree Software; Hummingbird EIP 4 from Hummingbird; Portal Server from Epicentric; SageBus from SageMaker; Viador E-Portal 6.3 from Viador; and XPS from Sequoia Software. Some products are priced by user and some are priced by CPU. A corporate portal should provide genuine interapplication communication and should allow users to feel at home in their work environments. Portals can support transactions for the following systems: business intelligence; customer relationship management (CRM); discussion threads; document management; e-mail; enterprise resource planning (ERP); online chats; personal and group calendar; reporting; sales force automation; and workflow.

COMPANY NAME: Vendor Independent (999999)  
SPECIAL FEATURE: Charts Buyers Guides  
DESCRIPTORS: Document Management; Groupware; Intranets; Portals; Software Selection  
REVISION DATE: 20010430

12/5/2 (Item 2 from file: 256)  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00123318 DOCUMENT TYPE: Review

PRODUCT NAMES: TIBCO ActiveExchange (796981); BusinessWare (719307); OpenBusiness (796999)

TITLE: Middleware Vendors Bolster B-to-B Application Integration  
AUTHOR: Grygo, Eugene LaMonica, Martin

Search Performed by Sylvia Keys 17-May-04

SOURCE: InfoWorld, v22 n16 p26(1) Apr 17, 2000  
ISSN: 0199-6649  
HOMEPAGE: http://www.infoworld.com

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

TIBCO's ActiveExchange, Vitria's BusinessWare, and ObjectSpace's OpenBusiness are highlighted in a discussion of middleware vendors' strengthening of business-to-business (B2B) application integration. Users of Internet trading exchanges now know that they need application integration and exchange-to-exchange links. Enterprise application integration (EAI) and e-business integrator product vendors, such as TIBCO, Vitria, and ObjectSpace are filling the void. ActiveExchange's foundation is the Tibco ActiveEnterprise 3.0 suite of EAI components, and includes TIB/BusinessConnect, a B2B integration server that targets business partners and intermediaries and can also **automate scheduling** of B2B transactions; and TIB/BusinessPartner, which supports scheduled and ad hoc transactions and also converts XML documents into flat-file and database formats. Vitria will soon offer Trading Partner Network (TPN), a clearinghouse for exchange users who must find **Internet service providers** (ISPs) and create connections among exchanges. Vitria provides BusinessWare software and security, business logging, and related services. Product and **service providers** from telecom, financial services, and health care industries will participate in TPN, along with customers and system integrators.

COMPANY NAME: TIBCO Software Inc (620777); Vitria Technology Inc (634549); ObjectSpace Inc (592005)  
DESCRIPTORS: E-Commerce; Enterprise Application Integration; Extranets; Integration Software; Middleware; Software Marketing  
REVISION DATE: 20010830

12/5/3 (Item 3 from file: 256)

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00121477 DOCUMENT TYPE: Review

PRODUCT NAMES: vJungle (784494)

TITLE: Big Helpings for Small Business: vJungle offers low-cost online...  
AUTHOR: Donahue, Sean  
SOURCE: Business 2.0, p60(2) Feb 2000  
ISSN: 1080-2681  
HOMEPAGE: http://www.business2.com

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

vJungle.com's vJungle, a startup that provides a system of Web-based communication and collaboration applications, aims to assist small businesses in managing their back-end applications. Founded by Deepak Amin, one of the designers of Microsoft Internet Explorer, vJungle provides **Web hosting**, free e-mail, **online calendars**, and file sharing. Amin knows that small companies want the same high quality tools available to large corporations and do not want to use free e-mail that screams 'free' to the

recipient. vJungle obtained \$3 million in venture capital, and the site was up and running in under five months. vJungle has 2,000 customers and will have an official launch and initial marketing campaign in February 2000. An investor lauds Amin for his energy level and regards Amin's Microsoft background as an important plus for any vendor entering a highly competitive market. Any company can use vJungle's services, but the first group of users is expected to be companies with 25 or fewer employees. E-mail will be branded in the company's name, rather than the name of an **Internet service provider (ISP)** or free e-mail **service provider**. Users can create homepages using vJungle's setup system or host their extant Web sites at no cost. Amin says the greatest benefit of vJungle is the ability to obtain all communication services from one Web site. For instance, accounting services will synchronize with a client calendar and e-mail system to send bill payment reminders or overdue notices.

COMPANY NAME: vJungle.com Inc (672611)  
SPECIAL FEATURE: Screen Layouts  
DESCRIPTORS: E-Mail; Portals; Small Business; Software Marketing; **Web Hosting**  
REVISION DATE: 20010430

**12/5/4 (Item 4 from file: 256)**  
DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00118325 DOCUMENT TYPE: Review

**PRODUCT NAMES: TimeDance (768693)**

**TITLE: Time Dance a Time-Saver For Corporate Schedules**  
**AUTHOR: Johnson, Amy Helen**  
**SOURCE: Computerworld, v33 n31 p54(4) Aug 2, 1999**  
**ISSN: 0010-4841**  
**HOME PAGE: <http://www.computerworld.com>**

**RECORD TYPE: Review**  
**REVIEW TYPE: Product Analysis**  
**GRADE: Product Analysis, No Rating**

Time Dance, a **provider** of **online scheduling** services, allows individuals to schedule group meetings through its Web site, while keeping and updating a preferred personal calendar system. Most companies use desktop software packages for scheduling and calendaring, including Microsoft Outlook, Lotus Development's cc:Mail, and Novell's GroupWise, all of which provide a scheduling feature, but require each potential attendee to use the same software. Mark Lazar, CEO and president of Time Dance, and Mark Drummond, CTO, decided that a service that separates calendaring from scheduling could make meeting information available to any user with Internet access. However, in the corporate environment, data must be protected with security and privacy features, so Time Dance's penetration of company firewalls is limited to an e-mail message or an HTTP Web protocol request. All processing occurs on Time Dance's servers, which are in an undisclosed location and guarded by advanced, sophisticated security technology, such as handprint entry keys. When all prospective attendees have responded with a preferred, open time to an e-mail invitation from the meeting's planner, the planner is sent a summary and chooses the best option. Another e-mail is sent to announce the actual time and date of the planned meeting.

COMPANY NAME: TimeDance Inc (667447)

Search Performed by Sylvia Keys 17-May-04

SPECIAL FEATURE: Charts  
DESCRIPTORS: Internet Utilities; Meetings & Conventions; Personal  
Information Management; Scheduling  
REVISION DATE: 20021125

12/5/5 (Item 5 from file: 256)

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00114209 DOCUMENT TYPE: Review

PRODUCT NAMES: Publishing (830461); Internet (833029)

TITLE: The Web Is a Bibliophile's Dream

AUTHOR: Kennedy, Shirley Duglin

SOURCE: Information Today, v16 n2 p24(2) Feb 1999

ISSN: 8755-6286

HOME PAGE: <http://www.infotoday.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

There are numerous data-wealthy Web sites that cater to any bibliophile, such as Mancon.com, BookBrowser.com, MIRAGE Readers' Advisory Links, Los Angeles Times Books, and BookWire.com. Mancon.com is the location to find the online equivalent of the popular Genreflecting: A Guide to Reading Interests in Genre Fiction, a vast resource of novels. MIRAGE Readers' Advisory Links is made up of valuable links assembled by a group of librarians whose mission is to promote literature. BookBrowser.com is a World Wide Web guide for avid readers that is assembled more like an online version of a magazine than a book. Los Angeles Times Books is part of the newspaper's **Calendar Online** section and includes free archive searches. BookWire is a comprehensive data resource that houses numerous resources, such as 'Publisher's Weekly,' 'Library Journal,' and 'The Boston Book Review.'

COMPANY NAME: Vendor Independent (999999)

SPECIAL FEATURE: Screen Layouts

DESCRIPTORS: Bookstores; Content Providers ; Information Retrieval;  
Internet; Libraries; Publishing; Recreation & Hobbies

REVISION DATE: 20000830

12/5/6 (Item 6 from file: 256)

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00113493 DOCUMENT TYPE: Review

PRODUCT NAMES: Norton AntiVirus 4.0 (318167)

TITLE: Norton AntiVirus 4.0--you'll like it

AUTHOR: Hitchcock, J A

SOURCE: Link-Up, p19(1) Jan/Feb 1999

ISSN: 0734-988X

HOME PAGE: <http://www.infotoday.com>

RECORD TYPE: Review

REVIEW TYPE: Review

Search Performed by Sylvia Keys 17-May-04

GRADE: A

Symantec's Norton AntiVirus 4.0, the latest version of the antivirus package, is recommended for users of other products and as an upgrade to current users. Testers started out with more than 16,000 viruses in their Virus List, and were able to use the excellent LiveUpdate feature to automatically link to Symantec's FTP site, where the virus lists can be updated. The other program used by testers, McAfee's, also provides free updates, but users have to install updates themselves, while NAV 4.0 conveniently handles update installation automatically. Installation of NAV 4.0 during testing was easy. The first task was to click on the shortcut, which was automatically installed on the desktop. The streamlined program window provided Scan, Tools, Activity Log, Live Update, Inoculation, and Help options via pull-down menus. A toolbar provides access to Options, Virus List, **Scheduler**, Activity Log, and Live Update. **Online** product support is provided from the Help pull-down menu. It provides, for example, Getting Connected to the Web, an excellent source for new users or those with questions about the World Wide Web and **Internet service providers** (ISPs). NAV 4.0 automatically scans any files downloaded during download, and keeps hard drives, floppies, and Zip drives virus-free. No faults with this product were detected by testers.

COMPANY NAME: Symantec Corp (386251)  
SPECIAL FEATURE: Charts Screen Layouts  
DESCRIPTORS: Computer Security; File Security; Network Administration;  
Network Software; System Monitoring; Viruses & Worms  
REVISION DATE: 20020630

12/5/7 (Item 7 from file: 256)  
DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00068426 DOCUMENT TYPE: Review

PRODUCT NAMES: MS-DOS (702102); NetWare (699683)

**TITLE: Innovative Insurance Brokerage Doesn't Do Windows**  
AUTHOR: Baum, David  
SOURCE: InfoWorld, v16 n38 p81(1) Sep 19, 1994  
ISSN: 0199-6649  
HOMEPAGE: <http://www.infoworld.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Microsoft Windows is not part of the client/server system used by a **provider** of employee insurance plans. The NetWare/DOS-based system is more production-oriented, according to a firm VP, uses less memory, and requires less expensive hardware. The firm also uses an internally developed program called The Creator to generate reports and create data entry databases. A quoting and prospecting system provides **automated** marketing, working with sales tracking, **calendaring**, and project control software. All applications are stored on the server for access by all clients. The client/server system will also support a quotation system that can link to major insurance company quotations via a wide area network (WAN) e-mail server. Should Microsoft stop upgrading MS-DOS, the firms will use Novell DOS, according to the VP of data processing.

COMPANY NAME: Microsoft Corp (112127); Novell Inc (344893)

Search Performed by Sylvia Keys 17-May-04

SPECIAL FEATURE: Photographs Charts  
DESCRIPTORS: Client/server; DOS; IBM PC & Compatibles; Insurance; LANs;  
NetWare; Network Software; Operating Systems; WANs  
REVISION DATE: 20020930

12/5/8 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

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6638663

**Title: Go forth and prosper [home office Web tools]**

Author(s): Abel, A.

Journal: Home Office computing vol.18, no.6 p.56-9

Publisher: Freedom Technol. Media Group,

Publication Date: June 2000 Country of Publication: USA

ISSN: 0899-7373

SICI: 0899-7373(200006)18:6L:56:FPHO;1-U

Material Identity Number: F435-2000-002

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Using Web technology, you can find the resources to finance your venture, reduce your phone expenses, network with other small and home-based businesses, and even learn how to provide better customer service. Add to the mix application **service providers** (ASPs), Web sites that rent you business applications that live on the sites' servers. These ASPs offer a host of services, such as team meeting and collaboration, document management, online data storage, and billing and expense tracking software, much of it free. Instead of installing software, you type in a Web address. Similarly, **online** desktops provide **calendar** and contact management applications you access from anywhere there's a Web connection.

(0 Refs)

Subfile: D

Descriptors: home working; Internet

Identifiers: home-based business; Web technology; application **service providers** ; online desktops

Class Codes: D2010 (Business and professional); D2080 (Information services and database systems); D1040 (Human aspects)

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12/5/9 (Item 2 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6559362 INSPEC Abstract Number: C2000-05-7140-055

**Title: The use of computerized patient records for population health management**

Author(s): Churgin, P.

Conference Title: Toward an Electronic Patient Record'99. Conference and Exposition. TEPR'99 Part vol.1 p.602-5 vol.1

Editor(s): Waegemann, C.P.

Publisher: Medical Record Inst, Newton, MA, USA

Publication Date: 1999 Country of Publication: USA 3 vol.(1030+590+309) pp.

ISBN: 1 893378 01 2 Material Identity Number: XX-2000-00544

Conference Title: Toward and Electronic Patient Record '99. Conference and Exposition. TEPR'99

Conference Sponsor: Medical Records Inst

Conference Date: 1-6 May 1999 Conference Location: Orlando, FL, USA

Search Performed by Sylvia Keys 17-May-04

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: The paper considers how CIGNA HealthCare of Arizona has implemented a sophisticated computerized patient record system (CPR) known as EpicCare at its Chandler and Tempe primary care clinics. Over 250,000 office visits have been completed on EpicCare by 18 medical **providers** in Family Practice and Pediatrics. All patient-related workflows are completed **electronically**, including **scheduling**, nursing functions, orders and both visit and telephone documentation. Physicians review all lab and radiology reports on-line through an electronic in-basket, and all staff communicate through the system's internal e-mail messaging function. (9 Refs)

Subfile: C

Descriptors: electronic mail; medical information systems; records management

Identifiers: computerized patient records; population health management; CIGNA HealthCare; EpicCare; primary care clinics; Family Practice; Pediatrics; patient-related workflows; scheduling; nursing; radiology reports; e-mail

Class Codes: C7140 (Medical administration)

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12/5/10 (Item 3 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5958917 INSPEC Abstract Number: B9808-7930-010, C9808-7150-007

**Title: Scheduling information dissemination by satellite broadcast**

Author(s): Wellington, R.J.

Author Affiliation: Inf. Syst. & Serv., Comput. Devices International, Bloomington, MN, USA

Conference Title: MILCOM 97. MILCOM 97 Proceedings (Cat. No.97CH36134)  
Part vol.2 p.623-7 vol.2

Publisher: IEEE, New York, NY, USA

Publication Date: 1997 Country of Publication: USA 3 vol. xli+1613 pp.

ISBN: 0 7803 4249 6 Material Identity Number: XX97-03162

U.S. Copyright Clearance Center Code: 0 7803 4249 6/97/\$10.00

Conference Title: MILCOM 97 MILCOM 97 Proceedings

Conference Sponsor: IEEE; IEEE Commun. Soc.; AFCEA (Armed Forces Commun. & Electron. Assoc.)

Conference Date: 2-5 Nov. 1997 Conference Location: Monterey, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: sup O/ne of the potential capabilities of the Global Broadcast Service (GBS) is that information **providers** may engage GBS in dialogues to reserve broadcast resources for application data dissemination. This paper describes one approach for automating this interaction by adapting commercial-off-the-shelf (COTS) packages for scheduling computing jobs. These COTS tools implement processor assignment policies and provide job queue management in heterogeneous processing environments. We discuss how to understand the information dissemination problem in terms of services requiring the assignment of processing resources. A broadcast schedule can then be planned by a system that makes job scheduling decisions based on anticipated bandwidth utilization. The quality of service (QoS) parameters associated with each broadcast request provide the prior knowledge about resource requirements (e.g., connectivity, bandwidth, latencies) needed to automatically create a broadcast schedule. An important design feature involves the capability to reschedule future activities based on feedback about the actual performance of jobs in progress. Cooperating scheduling

Search Performed by Sylvia Keys 17-May-04

frameworks can manage information distribution services which must schedule access to broadcast services. This approach implements policies and priorities for information management and GBS broadcast management. The result is an **automated scheduling** mechanism that manages services which disseminate information by satellite broadcast. (11 Refs)

Subfile: B C

Descriptors: data communication; direct broadcasting by satellite; information dissemination; military communication; military computing; processor scheduling

Identifiers: satellite broadcast; scheduling information dissemination; Global Broadcast Service; GBS; information **providers** ; broadcast resources ; application data dissemination; commercial-off-the-shelf packages; processor assignment policies; computing jobs; COTS tools; job queue management; heterogeneous processing environments; processing resources; broadcast schedule; bandwidth utilization; quality of service; QoS parameters; connectivity; latencies; information distribution services; broadcast services; information management; **automated scheduling** mechanism; Defense Information Services Network

Class Codes: B7930 (Military communications); B6250G (Satellite relay systems); C7150 (Military computing); C7220 (Generation, dissemination, and use of information)

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**12/5/11 (Item 4 from file: 2)**

DIALOG(R)File 2:INSPEC

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4789386 INSPEC Abstract Number: C9411-7104-037

**Title: Personal calendaring and group scheduling : an extension of the electronic mail system**

Author(s): Greenwood, E.

Author Affiliation: WordPerfect Corp., Orem, UT, USA

p.385-7

Editor(s): Coleman, D.D.

Publisher: Morgan Kaufmann Publishers, San Mateo, CA, USA

Publication Date: 1992 Country of Publication: USA xv+543 pp.

Conference Title: Proceedings of Groupware '92

Conference Date: 2-5 Aug. 1992 Conference Location: San Jose, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Product Review (R)

Abstract: WordPerfect Corporation (WPCorp) is the **provider** of WordPerfect Office, an **electronic mail, calendaring and scheduling** product for various platforms. This paper examines the background of WP Office, its current functionality, and its strategic direction with regard to personal calendaring and group scheduling. (0 Refs)

Subfile: C

Descriptors: electronic mail; groupware; office automation; personal computing; scheduling; software packages

Identifiers: personal calendaring; group scheduling; electronic mail system; WordPerfect Corporation; WPCorp; WordPerfect Office; scheduling product; WP Office; strategic direction; groupware

Class Codes: C7104 (Office automation); C6150N (Distributed systems)

**12/5/12 (Item 1 from file: 99)**

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1831598 H.W. WILSON RECORD NUMBER: BAST98003343

Search Performed by Sylvia Keys 17-May-04



**Maestro helps Sabre keep watch**

Datamation v. 44 (Dec. '97/Jan. '98) p. 17

DOCUMENT TYPE: Feature Article ISSN: 0011-6963 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: Sabre Decision Technologies (<http://www.sabre.com/sdt/sdt.htm>), a developer and **provider** of yield management systems for airlines throughout the U.S., needs to monitor the huge amounts of data processing that take place at the company on a daily basis. To this end, Sabre has selected Unison Software's Maestro, an **automated job scheduling** and workload management package that ensures that each process goes through correctly, following the conditions and situations defined by the programmer.

DESCRIPTORS: Business software; Scheduling (Management); SABRE Decision Technologies Inc;

**12/5/13 (Item 1 from file: 233)**

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00604446 00NC06-108

**ASP market: enter at your own risk -- Midtier companies can use ASPs to avoid high-priced custom apps and the ill fit of off-the-shelf software. But it's too early to...**

Wittmann, Art

Network Computing , June 12, 2000 , v11 n11 p74-80, 5 Page(s)

ISSN: 1046-4468

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Analyzes the application **service provider** (ASP) market. Mentions that ASPs provide midtier companies the advantages of avoiding high-priced custom applications and the poor fit of off-the-shelf software. Indicates, however, that the market is too young for midtier companies to turn over strategic applications. Cites the types of applications that organizations are using/looking into an ASP for: Web/ **electronic** commerce, mail/ **calendar** , payroll, intranet, financials, enterprise resource planning, customer relationship management, human resources, data mining, supply-chain automation, and sales-force automation. Presents eight ASP risks: loss of control over corporate data, uncertain responsiveness to support requests, debatable application performance, long-term viability, lack of proven track records, limited application customization ability, and accessibility to user training. Includes a diagram and nine charts. (MEM)

Descriptors: Application **Service Providers** ; Outsourcing; Software Distribution; Software Rental; Leasing

**12/5/14 (Item 2 from file: 233)**

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00602909 00IW05-115

**Calendar Server eases users' scheduling -- iPlanet makes offering shared calendars affordable**

Michael, Gregory

InfoWorld , May 8, 2000 , v22 n19 p86, 90, 2 Page(s)

ISSN: 0199-6649

Company Name: iPlanet E-Commerce Solutions  
URL: http://www.iplanet.com  
Product Name: iPlanet Calendar Server 2.1  
Languages: English  
Document Type: Software Review  
Grade (of Product Reviewed): B  
Geographic Location: United States

Presents a favorable review of iPlanet Calendar Server 2.1 (\$7), a Web-based calendar solution from iPlanet E-Commerce Solutions, Sun-Netscape Alliance of Mountain View, CA (650). Explains that it is a shared calendar service that can provide additional revenue stream to application **service providers** (ASPs) and **Internet service providers** (ISPs). Cites features such as intuitive browser-based client, ease of installation and configuration, and Netscape Directory Service. Mentions, however, that it requires application programming interfaces (APIs) for authentication with non-Lightweight Directory Access Protocol-compliant directory services. Concludes that it provides the benefits of **calendar** services to **online** users. On a scale ranging from one to five, received the rating of four. Includes two screen displays and a product summary. (MEM)

Descriptors: Calendar; Shareware; **Scheduling** ; Client-Server Computing; Directories; **Online** Services  
Identifiers: iPlanet Calendar Server 2.1; iPlanet E-Commerce Solutions

12/5/15 (Item 3 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
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00580404 00KM03-004

**Collaboration on the Internet: solutions to match every challenge**

Lamont, Judith

KM World , March 1, 2000 , v9 n2 p10-11, 2 Page(s)

ISSN: 1060-894X

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Reports on Internet-enabled software products that support business activities like information sharing, **online** meetings, using whiteboards, **calendar**ing , instant messaging, and application sharing. Explains that collaboration can take place asynchronously or in realtime. Mentions that Lotus Notes, Microsoft Exchange 2000, Novell GroupWise, and RetrievalWare 6.7 from Excalibur are all contenders in this market. Recommends Java Thin Client Viewer from Spicer for accessing, sharing, and printing documents in many formats, and Livelink from Open Text for sharing engineering tasks. Adds that OneSpace from CoCreate Software is designed for distributed collaborative product development. Discusses a collaborative virtual learning product from LearnLinc. Notes that collaboration capability is being extended to mobile devices and that application **service providers** can help with compatibility. (amg)

Descriptors: Collaboration; Realtime; Information Management; Application Development; Engineering

12/5/16 (Item 4 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
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00558635 00IA01-005

**Outsourcing the health care paperchase -- Can't afford the time and expense of a big-league IT investment? Third-party providers offer leased**

**solutions for small and ...**

Haverson, Debra

Imaging & Document Solutions , January 1, 2000 , v9 n1 p52-54, 3 Page(s)

ISSN: 1063-4320

Company Name: Abacus; Smart

Product Name: Medical Information Management System

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Reports that **service providers** such as Abacus and Smart offer technology infrastructure and expertise that small health care companies can implement. Notes that despite Abacus' Medical Information Management System (MIMS) doctors still tended to keep paper folders, often overstuffed with years of patient records. Says that Abacus' offers various modules to handle appointment **scheduling** , referrals, letter writing, accounts receivable, **electronic** filing of insurance claims, HMO, and PPO contracts. Cites Smart of Atlanta, GA is a medical records service company which started 20 years ago photocopying records for hospitals and is adopting imaging and document management technology. States that users of Smart's system can access billing information from desktop PC's and requests are processed through an intranet. Predicts 80 percent of doctors will rely on electronic records within 5 years. Contains three photos. (sps)

Descriptors: Medicine; File Management; Application Development; Image Management; Trends; Data Base Management; Infrastructure

Identifiers: Medical Information Management System; Abacus; Smart

**12/5/17 (Item 5 from file: 233)**

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00558338 00BU01-201

**Japan's mobile marvel -- DoCoMo's Net phone service may become a global force**

Kunii, Irene M; Baker, Stephen

Business Week , January 17, 2000 , n3664 p88-92, 4 Page(s)

ISSN: 0007-7135

Company Name: NTT DoCoMo

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Presents a profile of Japan-based wireless Internet telephone **service provider** , NTT DoCoMo. Says that DoCoMo's i-mode service promises inexpensive and continuous wireless access to Web-based offerings such as customized news, **calendars** , chat, and **electronic** mail. Reports that DoCoMo has emerged as the world's most valuable cell-phone company, with a market capitalization of \$335 billion. Adds that it is also the largest cell-phone operator in Japan, the most popular stock in Japan with a share price equivalent to \$35,000, and the most advanced wireless Internet access service worldwide. Notes that DoCoMo is viewed by the Japanese as a symbol for New Age innovation. Reports that DoCoMo will take on foreign giants to penetrate markets around the world. Explains that global expansion will be pursued with friendly alliances and equity investments in local companies. Includes two photos, two graphs, and one sidebar. (MEM)

Descriptors: Wireless Communication; Internet Access; Telephony; **Internet Service Providers** ; Service Bureaus; Broadband Communication; Cellular Communication

Identifiers: NTT DoCoMo

12/5/18 (Item 6 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
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00553174 99PI11-022

**Send out for software -- Rentable and even free applications over the Internet are going to change the way you acquire and use software. Here's how it's...**

Seymour, Jim

PC Magazine , November 2, 1999 , v18 n19 p100-121, 10 Page(s)

ISSN: 0888-8507

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Presents a report on Web-based business applications. Says that the Internet can act as host to many applications and compares this to the old terminal/host model. Notes that applications such as Web-based e-mail and **online calendars** are popular because they are free, require no installation, and can be accessed from anywhere. Mentions the growth of software application rental through application **service providers** (ASPs). Says that any infrequently used applications, such as mapping software, may make good choices for Web-based use. Mentions the cost-effectiveness of rental compared to the purchase of in-house applications and servers. Warns, however, that integration of Web-based applications does not always go smoothly. Advises what to look for when selecting an ASP, noting that fast Internet access is crucial. Includes one diagram, seven sidebars, five screen displays, and one table. (kgh)

Descriptors: Software Distribution; Web Tools; **Internet Service Providers ; Calendar ; Electronic Mail ; Outsourcing**

12/5/19 (Item 7 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.  
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00549929 99PW10-007

**AOL unveils Version 5, eyes PDAs, TVs, even gas pumps**

Bertolucci, Jeff

PC World , October 1, 1999 , v17 n10 p59-60, 2 Page(s)

ISSN: 0737-8939

Company Name: America Online

Product Name: AOL 5

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Discusses new features available from America Online (AOL). Says that version 5 of its online software provides the ability to search AOL and the Web simultaneously. Notes that results are sorted by source. Warns that the search screen does not include links to other search engines. Says that a scheduler, My Calendar, can be accessed by any PC with AOL loaded, and will soon be accessible by other browsers. Describes how photographs can be delivered electronically from a local photo developer. Adds that deleted e-mail will be available for up to 24 hours. Examines other methods of access using Palm hand-held devices from 3Com, cellular phones, and touch-screens on gasoline pumps. Explains how AOL is bypassing AT&T's cable network using Digital Subscriber Line (DSL) service to provide high-speed Internet access. Includes two screen displays and one table. (amg)

Descriptors: **Internet Service Providers ; Search Engines; Scheduling ; Electronic Mail ; Wireless Communication; DSL**

12/5/20 (Item 8 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00540827 99PK07-205

**Voice mail chimes in on portals**

Degnan, Christa

PC Week , July 19, 1999 , v16 n29 p10, 1 Page(s)

ISSN: 0740-1604

Company Name: RocketTalk; Virtualplus; Pagoo Communications

Product Name: Messagejet

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Discusses that vendors and Web portal **providers** are providing voice mail services to users that will attach voice messages to e-mail and allow playback through Windows or proprietary players. Reports that RocketTalk of Fullerton, CA is announcing its free voice mail service along with e-mail and calendaring for playback on their RocketTalk player. Announces that Virtualplus of New York and London is releasing its Messagejet service which allows users to leave messages by phone, fax, or e-mail. Concludes that Pagoo Communications Inc. will launch a voice mail service this year with a major portal company. Includes one screen display. (cb)

Descriptors: Voice Mail; **Electronic Mail**; **Calendar**

Identifiers: Messagejet; RocketTalk; Virtualplus; Pagoo Communications

12/5/21 (Item 9 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00537467 99PW06-017

**4th annual best free stuff online -- With most freebies, you get what you pay for. Here are the exceptions: great, gratis goodies from e-mail to MP3**

McCracken, Harry; McDonald, Glenn

PC World , June 1, 1999 , v17 n6 p118-136, 10 Page(s)

ISSN: 0737-8939

URL: <http://www.hotmail.com> [mail.yahoo.com](http://www.yahoo.com) <http://www.briefcase.com>  
<http://www.homestead.com> <http://www.ecircles.com>

Product Name: Hotmail; Yahoo! Mail; Visto Briefcase; Homestead; ECircles

Languages: English

Document Type: Buyer and Vendor Guide

Geographic Location: United States

Presents a guide to free goods and services available online. Includes the top free e-mail, calendar, **Web hosting**, and community sites. Recommends Hotmail and Yahoo as the best free e-mail solutions. Calls Visto Briefcase the top Web-based calendar and scheduling tool, and names homestead as the top free **Web hosting** service. Says the top online community is ECircles. Also features capsule reviews of the best free downloads or services in four categories: Web utilities (ten titles), Windows utilities (seven titles), Tech support (five sites), and personal business (six sites). Includes 10 screen displays, seven sidebars, and four tables. (kgh)

Descriptors: Web Sites; Web Tools; **Electronic Mail**; **Calendar** ;

Utility Program

Identifiers: Hotmail; Yahoo! Mail; Visto Briefcase; Homestead;  
ECircles

12/5/22 (Item 10 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00394163 95IW08-408

**XAPIA hopes for broader adoption with upgrade to CMC standard**

Davis, Jessica

InfoWorld , August 28, 1995 , v18 n35 p54, 1 Page(s)

ISSN: 0199-6649

Company Name: Microsoft; Application Program Interface Association

Languages: English

Document Type: Feature Articles and News

Geographic Location: United States

Reports on an update to the Common Messaging Call (CMC) standard produced by the XAPIA (the x.400 Application Program Interface Association) which it is hoped will gain support. States that many larger messaging **providers** say they support CMC 2.0, but it has not been adopted wholeheartedly due to competition from Microsoft Corp.'s MAPI standard. Reports that the update for CMC will provide workflow, **calendaring**, document management, and **Electronic** Data Interchange support. Says although Microsoft supported CMC 1.0, the company has its own standard that it plans to enhance. Cites analyst Rob Rassner at Creative Networks Inc. who feels CMC 2.0 will bring the idea of plug and play closer to client-server computing. (bjp)

Descriptors: Messaging; Standards; Electronic Data Interchange; Plug and Play; Client-Server Computing

Identifiers: Microsoft; Application Program Interface Association

12/5/23 (Item 1 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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09120058

PEOPLE NOTES

HONG KONG: NEW **APPOINTMENT AT ASIA ONLINE**

Electronics Business Asia (XBX) Apr 1999 p.21

Language: ENGLISH

Asia Online, an **Internet service provider (ISP)**, has appointed Bill Parker as its technology vice president in Hong Kong. Mr Parker will offer new Internet technologies to the **ISP**'s business client base with wider and stable communication services.

COMPANY: INTERNET; ASIA ONLINE

EVENT: Officers & Directors (54);

COUNTRY: Hong Kong (9HON);

12/5/24 (Item 2 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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09110357

More space

SINGAPORE: NEW INITIATIVES BY PACIFIC INTERNET  
Computerworld (XCK) 23-29 Apr 1999 p.14  
Language: ENGLISH

Two new initiatives have been introduced in Singapore by Pacific Internet, an **Internet service provider (ISP)**. The first initiative involves Pacific Internet increasing by twofold users home pages' Web disk space allotment to 2MB. The next initiative features the Easy HomePage Designer for Web designing and WebSecretary for **online scheduling**.

COMPANY: INTERNET; PACIFIC INTERNET

EVENT: Product Design & Development (33); Plant/Facilities/Equipment (44); Planning & Information (22);  
COUNTRY: Singapore (9SIN);

**12/5/25 (Item 3 from file: 583)**  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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09035759

IT award

SINGAPORE: NCB CONFERS AWARD TO CALENDARONE  
Computerworld (XCK) 19 Nov 1998 p.4  
Language: ENGLISH

The National Computer Board (NCB) has bestowed the Innovative Service award to CalendarONE at the 1998 National IT Awards in Singapore. CalendarONE, a time-sensitive events information **provider**, will share the Innovative Service award with Health Online. The **provider** delivers eCalendar tool to business organisations, as well as achieves private data and public information adjustment. The eCalendar tool enables events information publishing and receiving by subscribers for concerts, exhibition programmes.

COMPANY: HEALTH **ONLINE** ; **CALENDARONE** ; NCB; NATL COMPUTER BOARD

PRODUCT: Databases (7375DA);  
EVENT: Product Standards (35);  
COUNTRY: Singapore (9SIN);

**12/5/26 (Item 4 from file: 583)**  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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06478539

SingNet's share service

SINGAPORE: SINGNET OFFERS NEW SERVICES  
The Straits Times (XBB) 05 Jun 1997 P.59  
Language: ENGLISH

**Internet service provider** SingNet has launched StockAlert, a new service that allows its subscribers in Singapore to use pagers to monitor the movement of their local shareholdings. The new service is one of three CommerceAsia Interactive offerings available from 5 June 1997. The other two services are CyberSecretary and Sunshine OnLine. CyberSecretary helps SingNet users who subscribe to CommerceAsia Interactive to keep track of

**appointments** while Sunshine OnLine is an educational web site for children.

COMPANY: INTERNET; SINGNET

PRODUCT: Messaging Svcs (4811ME); Paging Services (4838PG);  
Telecommunications (4810); Computers & Auxiliary Equip (3573);  
Communications Eqp ex Tel (3662); Financial Service Information  
**Providers** (7375FN);

EVENT: Plant/Facilities/Equipment (44);

COUNTRY: Singapore (9SIN);

**12/5/27 (Item 5 from file: 583)**

DIALOG(R)File 583:Gale Group Globalbase(TM)

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06229680

Sanderson chief's dilemma

UK: NEW CHIEF AT SANDERSON ELECTRONICS

Financial Times (FT) 17 Nov 1995 p.30

Language: ENGLISH

UK computer and support services **provider**, Sanderson **Electronics**, has announced the **appointment** of computer industry veteran, Christopher Winn, to the post of chief executive. The appointment follows the decision of chairman, Paul Thompson, to split his role.

(c) Financial Times 1995

COMPANY: SANDERSON ELECTRONICS

PRODUCT: Computer Services (7370);

EVENT: Officers & Directors (54);

COUNTRY: United Kingdom (4UK);

**12/5/28 (Item 1 from file: 474)**

DIALOG(R)File 474:New York Times Abs

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07677624 NYT Sequence Number: 083402990406

**AMERICA ONLINE BUYS WHEN INC., AN INTERNET CALENDAR PROVIDER**

Reuters

New York Times, Col. 1, Pg. 6, Sec. C

Tuesday April 6 1999

DOCUMENT TYPE: Newspaper JOURNAL CODE: NYT LANGUAGE: English

RECORD TYPE: Abstract

ABSTRACT:

America Online acquires When Inc for undisclosed amount of its stock, move that will allow it to offer free Internet calendar and event-planning services to subscribers (M)

COMPANY NAMES: America Online; When Inc

DESCRIPTORS: Computers and the Internet; Mergers, Acquisitions and  
Divestitures

?



16/5/1 (Item 1 from file: 256)  
DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00125152 DOCUMENT TYPE: Review

PRODUCT NAMES: e-FORCE (013242); PrimeTime Enterprise Edition 2.0  
(046043); Aspect SeriesFive (013251); TotalView (647438); Workforce  
Manager (013269)

TITLE: Time On Your Side: Workforce Management Software And You  
AUTHOR: Hollman, Lee  
SOURCE: Call Center Magazine, v13 n4 p50(12) Apr 2000  
ISSN: 1064-5543  
HOMEPAGE: <http://www.callcentermagazine.com>

RECORD TYPE: Review  
REVIEW TYPE: Product Analysis  
GRADE: Product Analysis, No Rating

Interactive Software Systems' e-Force, Blue Pumpkin's PrimeTime Enterprise 2.0, Aspect Communications' Aspect SeriesFive, IEX's TotalView, Genesys' Workforce Manager, Teleopti's Call Center Coach, ISC's Irene, and Professional Resource Management's Agent Power are some of the workforce management products on the market that can ensure call centers always have enough agents **available** to assist customers. E-Force **determines** the number of e-mail messages a call center receives through a Web connection to a server. It will also capture historical data from an ACD to help predict call volumes, and from a predictive dialer to determine that number of agents that should be available for outbound calls. PrimeTime Enterprise is designed for call centers set in different time zones and can be used to customize scheduling procedures at each call center. Aspect SeriesFive will merge data from a call center's ACD with historical data in order to calculate the number of agents needed at any given time. TotalView allows for the creation of forecasts for 15-minute, half-hour or intra-day intervals, or even months of years in advance. Workforce Manager has three forecasting options, and can incorporate data from systems other than a PBX.

COMPANY NAME: Interactive Software Systems (686875); Blue Pumpkin  
Software Inc (642771); Aspect Communications (531201); IEX (575615);  
Genesys Telecommunications Laboratories Inc (608122)  
SPECIAL FEATURE: Screen Layouts  
DESCRIPTORS: Call Centers; **Electronic** Customer Service; Employee  
Supervision; **Scheduling** ; Telecommunications  
REVISION DATE: 20011130

16/5/2 (Item 2 from file: 256)  
DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00120905 DOCUMENT TYPE: Review

PRODUCT NAMES: Petroleum Industry (831069); E-Commerce (836109)

TITLE: Pipe Dreams: A new online scheduling system for petroleum  
pipeline..  
AUTHOR: Donahue, Sean  
SOURCE: Business 2.0, p90(4) Jan 2000

Search Performed by Sylvia Keys 17-May-04

ISSN: 1080-2681

HOME PAGE: <http://www.business2.com>

RECORD TYPE: Review

REVIEW TYPE: Product Analysis

GRADE: Product Analysis, No Rating

The petroleum industry's use of the World Wide Web for business-to-business transactions is enhanced with a new **online scheduling** system for petroleum pipeline shipments. Colonial Pipeline, the largest pipeline operator in the U.S., Buckeye Pipeline, Explorer Pipeline, and TE Products Pipeline have collaborated to create the Transport4 joint venture. Transport4 allows oil companies to schedule and track petroleum shipments on any participating companies' pipelines. A central order processing system, Transport 4 gathers customer shipping **requests** via the Web and **sends** the order information back to each pipeline company's individual internal system. Approximately 500 customers used the site in its first four months of operation in 1999, but Transport4's goal is to have up to

1,000 online by January 2000. Transport4 appeals to customers because it eases the otherwise very complicated process of scheduling petroleum shipments to various locations in the U.S. Without the Web site, many phone calls, faxes, and mail requests have to be made. With Transport4, says a spokesperson for Continental Airlines, 'Everyone involved is right there...so we know immediately if the orders/nominations have been accepted...And if it hasn't, we do not have to spend hours chasing people down to find out why the transaction hasn't gone through.'

COMPANY NAME: Vendor Independent (9999999)  
SPECIAL FEATURE: Charts  
DESCRIPTORS: Distribution Management; E-Commerce; Extranets; Order Fulfillment; Petroleum Industry  
REVISION DATE: 20020630

16/5/3 (Item 3 from file: 256)

DIALOG(R) File 256:SoftBase:Reviews,Companies&Prods.  
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00100634 DOCUMENT TYPE: Review

PRODUCT NAMES: Blaze Web Performance Pack 1.1 Windows 95 & NT (659355)

TITLE: Blaze browsing tool packs punch  
AUTHOR: Shankar, Gess  
SOURCE: InfoWorld, v19 n15 p72C(2) Apr 14, 1997  
ISSN: 0199-6649  
HOMEPAGE: <http://www.infoworld.com>

RECORD TYPE: Review  
REVIEW TYPE: Review  
GRADE: C

Datalytics'now Ascent Solutions' Blaze Web Performance Pack 1.1, a World Wide Web utility package, provides good integrated browser tools that enhance Netscape Communications' Navigator and Microsoft's Microsoft Internet Explorer (IE) browsers with search, organization, and acceleration functions. Blaze adds an Organize menu item to the browser, and allows users to quickly add a current uniform resource locators (URLs) to bookmarks and to execute Blaze from the browser. Blaze can also import bookmark folders. Blaze, which operates as a proxy to a browser, **receives** all Hypertext Transfer Protocol (HTTP) **requests** first for processing. It integrates smoothly with Netscape's browsers and Microsoft's Microsoft Internet Explorer, and the installation routine automatically finds these browsers and allows the user to configure either one to work with Blaze. During tests, however, the installation module did not recognize Netscape Navigator 3.0 Gold, and the tester could not manually configure it; the vendor is working on a patch to fix the problem. Page loading is faster with Blaze, especially when revisiting sites. Clicking unvisited links displayed the referenced pages instantly from Glaze's local cache; read-ahead caching eliminates idle modem time for better efficiency. The greatest productivity enhancements come from search, **scheduling**, indexing, and **automated** monitoring features.

PRICE: \$50

COMPANY NAME: PKWARE Inc (480681)  
SPECIAL FEATURE: Screen Layouts Charts  
DESCRIPTORS: Front Ends; Information Retrieval; Internet Utilities; User Interfaces; Windows NT/2000

Search Performed by Sylvia Keys 17-May-04

REVISION DATE: 20031021

16/5/4 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6619734 INSPEC Abstract Number: C2000-07-4240-030

**Title: An on - line scheduling policy for IRIS real-time composite tasks**

Author(s): Cam, H.

Author Affiliation: Dept. of Comput. Eng., King Fahd Univ. of Pet. & Miner., Dhahran, Saudi Arabia

Journal: Journal of Systems and Software vol.52, no.1 p.25-32

Publisher: Elsevier,

Publication Date: 15 May 2000 Country of Publication: USA

CODEN: JSSODM ISSN: 0164-1212

SICI: 0164-1212(20000515)52:1L.25:LSPI;1-L

Material Identity Number: J325-2000-009

U.S. Copyright Clearance Center Code: 0164-1212/2000/\$20.00

Document Number: S0164-1212(99)00130-2

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Theoretical (T)

**Abstract:** In a new class of real-time tasks, called IRIS (Increasing Reward with Increasing Service) tasks, the value of a task's computation increases as a function of the amount of execution time it has been able to accrue before its deadline expires. A composite task is a set of dependent component tasks. This paper presents an **online scheduling** policy for IRIS composite tasks. This policy aims to increase the total accrued reward of composite tasks within a certain deadline on a uniprocessor. If there is not enough time to schedule all the component tasks of a composite task, those component tasks having the least impact on the total reward of the composite task are not scheduled for execution by the proposed scheduling policy. A flexible task graph is also introduced to aid in **determining** the amount of service **time** to be allocated to the given composite tasks. The performance of the proposed scheduling policy is evaluated both analytically and by computer simulation. (25 Refs)

Subfile: C

Descriptors: graph theory; online operation; real-time systems; scheduling; task analysis; virtual machines

Identifiers: **online scheduling** policy; IRIS real-time composite tasks; increasing reward with increasing service; task computation value; task execution time; deadlines; dependent component tasks; total accrued reward; uniprocessor; flexible task graph; service time allocation; performance; analytical evaluation; computer simulation

Class Codes: C4240 (Programming and algorithm theory); C6150J (Operating systems); C7430 (Computer engineering)

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16/5/5 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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6578743 INSPEC Abstract Number: B2000-06-6260F-022

**Title: Simple on - line scheduling algorithms for all-optical broadcast-and-select networks**

Author(s): Marsan, M.A.; Bianco, A.; Leonardi, E.; Neri, F.; Nucci, A.

Author Affiliation: Dipt. di Elettronica, Politecnico di Torino, Italy

Journal: European Transactions on Telecommunications vol.11, no.1

Search Performed by Sylvia Keys 17-May-04

p.109-16

Publisher: AEI,

Publication Date: Jan.-Feb. 2000 Country of Publication: Italy

CODEN: ETTEFJ ISSN: 1120-3862

SICI: 1120-3862(200001/02)11:1L.109:SLSA;1-T

Material Identity Number: D372-2000-001

Language: English Document Type: Journal Paper (JP)

Treatment: Theoretical (T)

**Abstract:** This paper considers all-optical broadcast networks providing a number of slotted WDM channels for packet communications. Each network user is equipped with one tunable transmitter and one fixed receiver, so that full connectivity can be achieved by tuning **transmitters** to the different wavelengths. Tuning **times** are not negligible with respect to the slot time. A centralized network controller allocates slots in a TDM/WDM frame according to (long-term) bandwidth requests issued by users. Simple **on - line** transparent **scheduling** strategies are proposed, which accommodate bandwidth **requests** when they are **received** (on-line approach), with the constraint of not affecting existing allocations when a new request is served (transparency). Strategies that attempt to allocate in contiguous slots all the transmissions of each source on one wavelength reduce overheads, are simple, and provide good performance. Even better performance can be achieved, at the cost of a modest complexity increase, when the transparency constraint is not strictly imposed, i.e., when a full re-allocation of existing connections is performed once in a while. (10 Refs)

Subfile: B

Descriptors: bandwidth allocation; broadcast channels; optical fibre networks; optical receivers; optical transmitters; packet switching; scheduling; telecommunication control; wavelength division multiplexing

Identifiers: **on - line scheduling** algorithms; all-optical networks; broadcast-and-select networks; slotted WDM channels; packet communications; tunable transmitter; fixed receiver; centralized network controller; slot allocation; TDM/WDM frame; bandwidth requests; transparency; performance; connection re-allocation

Class Codes: B6260F (Optical fibre networks); B6260M (Multiplexing and switching in optical communication)

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16/5/6 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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6406109 INSPEC Abstract Number: C1999-12-7400-023

**Title:** Scheduling **preventive maintenance activities through a computerised decision support system**

**Author(s):** Tu, P.Y.L.; Fung, R.Y.K.

**Author Affiliation:** Dept. of Mech. Eng., Canterbury Univ., Christchurch, New Zealand

**Journal:** International Journal of COMADEM vol.2, no.3 p.19-23

**Publisher:** COMADEM International,

**Publication Date:** July 1999 **Country of Publication:** UK

**CODEN:** IJOCFU **ISSN:** 1363-7681

**SICI:** 1363-7681(199907)2:3L.19:SPMA;1-B

**Material Identity Number:** H223-1999-007

**U.S. Copyright Clearance Center Code:** 1363-7681/99/\$15.00

**Language:** English **Document Type:** Journal Paper (JP)

**Treatment:** Applications (A); Practical (P)

**Abstract:** It has been observed that in many manufacturing companies, preventive maintenance activities, such as regular testing, checking,

Search Performed by Sylvia Keys 17-May-04

maintaining and overhauls, are scheduled and carried out in a pre-determined time period, e.g. once per month, regardless of equipment working conditions. This results in a certain amount of waste of maintenance resources. To solve this problem, we use the concepts in reliability engineering, statistical process control techniques, and artificial intelligence to develop a decision support system for scheduling preventive maintenance activities in dynamic time periods according to the working conditions of the equipment. The paper reports the basic methods of the system. Some industrial applications are also described in the paper.

(6 Refs)

Subfile: C

Descriptors: decision support systems; knowledge based systems; maintenance engineering; reliability theory; scheduling; statistical process control

Identifiers: preventive maintenance activities; computerised decision support system; manufacturing companies; reliability engineering; statistical process control techniques; scheduling; dynamic time periods

Class Codes: C7400 (Engineering computing); C6170 (Expert systems and other AI software and techniques)

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16/5/7 (Item 4 from file: 2)

DIALOG(R) File -2:INSPEC

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6356338 INSPEC Abstract Number: C1999-10-6150N-095

Title: The EDL server for scheduling periodic and soft aperiodic tasks with resource constraints

Author(s): Silly, M.

Author Affiliation: IRESTE, Nantes Univ., France

Journal: Real-Time Systems vol.17, no.1 p.87-111

Publisher: Kluwer Academic Publishers,

Publication Date: July 1999 Country of Publication: Netherlands

CODEN: RESY99 ISSN: 0922-6443

SICI: 0922-6443(199907)17:1L:87:SSPS;1-V

Material Identity Number: N508-1999-003

U.S. Copyright Clearance Center Code: 0922-6443/99/\$9.50

Language: English Document Type: Journal Paper (JP)

Treatment: Applications (A); Practical (P)

Abstract: In this paper, we are concerned with the problem of serving soft aperiodic tasks on a uniprocessor system where periodic tasks are scheduled on a dynamic-priority, preemptive basis and exclusively access to critical sections. Scheduling of tasks is handled by the dynamic priority ceiling protocol working with an earliest deadline scheduler. Our analysis determines the maximum processing time which may be stolen from periodic tasks without jeopardizing both their timing constraints and resource consistency. It provides the basis for an on-line scheduling algorithm, the EDL Server, to deal with the minimization of response times for soft aperiodic tasks. (23 Refs)

Subfile: C

Descriptors: minimisation; processor scheduling; real-time systems; resource allocation; timing

Identifiers: EDL server; soft aperiodic tasks; processor scheduling; resource constraints; uniprocessor system; preemptive basis; dynamic priority ceiling protocol; earliest deadline scheduler; maximum processing time; timing constraints; resource consistency; online scheduling algorithm

Class Codes: C6150N (Distributed systems software); C5440 (Multiprocessing systems); C5620 (Computer networks and techniques); C6150J (Operating systems); C1180 (Optimisation techniques)

Search Performed by Sylvia Keys 17-May-04

16/5/8 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

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6084687 INSPEC Abstract Number: C9812-6150N-107

**Title:** On - line scheduling algorithms for reducing the largest weighted error incurred by imprecise tasks

**Author(s):** Chunhee Lee; Won Ryu; Kihyun Song; Kyunghee Choi; Gihyun Jung; Seungkyu Park

**Author Affiliation:** ETRI, Taejon, South Korea

**Conference Title:** Proceedings Fifth International Conference on Real-Time Computing Systems and Applications (Cat. No.98EX236) p.137-44

**Publisher:** IEEE Comput. Soc, Los Alamitos, CA, USA

**Publication Date:** 1998 **Country of Publication:** USA **xiii+312 pp.**

**ISBN:** 0 8186 9209 X **Material Identity Number:** XX98-02929

**U.S. Copyright Clearance Center Code:** 0 8186 9209 X/98/\$10.00

**Conference Title:** Proceedings Fifth International Conference on Real-Time Computing Systems and Applications

**Conference Sponsor:** Inf. Process. Soc. Japan; Korean Inf. Sci. Soc.; IEEE Comput. Soc. Tech. Committee on Real-Time Syst.; IEEE Tokyo Sect.; IEICE of Japan; Hiroshima City Univ.; Telecommun. Adv. Found.; Electric Technol. Res. Found. Chugoku; TRON Assoc.; Nippon Electr. Corp.; Mitsubishi Electr. Corp

**Conference Date:** 27-29 Oct. 1998 **Conference Location:** Hiroshima, Japan

**Language:** English **Document Type:** Conference Paper (PA)

**Treatment:** Practical (P)

**Abstract:** The paper proposes **online scheduling** algorithms that reduce the largest weighted error incurred by preemptive imprecise tasks running on a single processor system. The first one is a two level algorithm. The top level scheduling, which is executed whenever a new task arrives, **determines** the processing **times** to be allotted to tasks in such a way to minimize maximum weighted error as well as to minimize total error. The lower level algorithm actually allocates the processor to the tasks. The second algorithm extends the online algorithm studied by W.K. Shih and J.W.S. Liu (1992) by formalizing the top level algorithm mathematically. The numerical simulation shows that the proposed algorithm outperforms the previous works in the sense that it greatly reduces the largest weighted error. (6 Refs)

**Subfile:** C

**Descriptors:** minimisation; resource allocation; scheduling

**Identifiers:** largest weighted error; imprecise tasks; **online scheduling** algorithms; preemptive imprecise tasks; single processor system; two level algorithm; top level scheduling; processing times; maximum weighted error; lower level algorithm; processor allocation; top level algorithm; numerical simulation

**Class Codes:** C6150N (Distributed systems software); C6150J (Operating systems); C1180 (Optimisation techniques)

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16/5/9 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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5203199 INSPEC Abstract Number: C9604-1290F-107

**Title:** Optimal sequencing of double-gripper gantry robot moves in tightly-coupled serial production systems

Author(s): Qi Su; Chen, F.F.  
 Author Affiliation: Dept. of Ind. & Syst. Eng., Florida Int. Univ.,  
 Miami, FL, USA  
 Journal: IEEE Transactions on Robotics and Automation vol.12, no.1  
 p.22-30  
 Publisher: IEEE,  
 Publication Date: Feb. 1996 Country of Publication: USA  
 CODEN: IRAUEZ ISSN: 1042-296X  
 SICI: 1042-296X(199602)12:1L:22:OSDG;1-W  
 Material Identity Number: M938-96001  
 U.S. Copyright Clearance Center Code: 1042-296X/96/\$05.00  
 Document Number: S1042-296X(96)01064-0  
 Language: English Document Type: Journal Paper (JP)  
 Treatment: Theoretical (T)  
 Abstract: This study addresses the problem of scheduling double-gripper  
 gantry robots and provides a structure for analyzing **scheduling** problems  
 in a tightly-coupled **automated** serial production line with **deterministic**  
 processing **time**. Literature to **date** indicates that there has been no  
 documented effort dealing with the scheduling problem of double-gripper  
 gantry robots. This paper presents an optimal schedule by analyzing the  
 cycle time formula for two-station ( $m=2$ ) tightly-coupled production lines  
 served by a double-gripper gantry robot. The result is then generalized to  
 the problem of scheduling a gantry robot in a production line with  $m$  (where  
 $m>2$ ) workstations, and finally an optimal schedule for the  $m$ -station case  
 is developed. The effectiveness of using double-gripper gantry robots is  
 discussed and some analytical insights into the employment of  
 double-gripper gantry robot are provided for manufacturing system  
 designers. (24 Refs)  
 Subfile: C  
 Descriptors: industrial robots; optimal control; production control;  
 robots  
 Identifiers: optimal sequencing; double-gripper gantry robot moves;  
 tightly-coupled serial production systems; double-gripper gantry robot  
 scheduling; tightly-coupled **automated** serial production line **scheduling**  
 ; **deterministic** processing **time**  
 Class Codes: C1290F (Systems theory applications in industry); C1330 (Optimal control)  
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16/5/10 (Item 7 from file: 2)  
 DIALOG(R) File 2:INSPEC  
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5135045 INSPEC Abstract Number: C9601-6150N-120  
**Title: Pre-run-time scheduling to reduce schedule length in the FieldBus environment**  
 Author(s): Cavalieri, S.; DiStefano, A.; Mirabella, O.  
 Author Affiliation: Istituto di Inf. e Telecommun., Catania Univ., Italy  
 Journal: IEEE Transactions on Software Engineering vol.21, no.11 p.865-80  
 Publication Date: Nov. 1995 Country of Publication: USA  
 CODEN: IESEDJ ISSN: 0098-5589  
 U.S. Copyright Clearance Center Code: 0098-5589/95/\$04.00  
 Language: English Document Type: Journal Paper (JP)  
 Treatment: Practical (P); Theoretical (T)  
 Abstract: The paper deals with the problem of scheduling the transmission  
 of periodic processes in a distributed FieldBus system, defining the  
 conditions guaranteeing correct transmission. The scheduling of periodic  
 processes fixes the **transmission times** for each process in a table,



whose length is equal to the Least Common Multiple (LCM) of all the periods. This involves great memorization problems when some periods are relatively prime. The authors identify the theoretical conditions which allow the length of the scheduling table to be drastically reduced, but still guarantee correct transmission. On the basis of the theoretical conditions given, the authors present a pre-run- **time** scheduling algorithm which **determines** a **transmission** sequence for each producing process within the desired **scheduling** interval. An **online scheduling** algorithm is also proposed to schedule new **transmission requests** which are made while the system is functioning. The reduction in the schedule length may increase the number of transmissions, thus reducing the effective bandwidth and increasing the communication overload. In order to make as complete an analysis as possible of the scheduling solution, the authors also present an analysis of both the computational complexity of the algorithms proposed and the communication overload introduced. (24 Refs)

Subfile: C

Descriptors: computational complexity; distributed algorithms; field buses; online operation; process control; scheduling

Identifiers: pre-run-time scheduling; schedule length; FieldBus; periodic process scheduling; FieldBus system; **transmission times**; Least Common Multiple; memory problems; transmission sequence; **online scheduling** algorithm; communication overload; computational complexity

Class Codes: C6150N (Distributed systems software); C4240C (Computational complexity); C4240P (Parallel programming and algorithm theory)

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16/5/11 (Item 8 from file: 2)

DIALOG(R) File 2:INSPEC

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4921168 INSPEC Abstract Number: C9505-1290F-047

**Title: Experimental investigation of an FMS due-date scheduling problem: an evaluation of due-date assignment rules**

Author(s): Sabuncuoglu, I.; Hommertzhaim, D.L.

Author Affiliation: Dept. of Ind. Eng., Bilkent Univ., Ankara, Turkey

Journal: International Journal of Computer Integrated Manufacturing  
vol.8, no.2 p.133-44

Publication Date: March-April 1995 Country of Publication: UK

CODEN: ICIMEE ISSN: 0951-192X

U.S. Copyright Clearance Center Code: 0951-192X/95/\$10.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

**Abstract:** This paper investigates the performance of due-date assignment rules in a flexible manufacturing system (FMS). Although emphasis is placed on a comparison of due-date assignment rules, machine and **automated** guided vehicle (AGV) **scheduling** rules are also evaluated under various experimental conditions using an FMS simulation model. The mean job tardiness is the measure of performance by which the rules are compared. The sensitivity to AGV workload, buffer capacity, and processing **time** distribution is also investigated to **assess** the robustness of the due-**date** assignment rules. (24 Refs)

Subfile: C

Descriptors: automatic guided vehicles; flexible manufacturing systems; operations research; performance evaluation; production control

Identifiers: FMS; due-date scheduling; due-date assignment; flexible manufacturing system; automated guided vehicle; AGV; simulation model; mean job tardiness; performance measure; buffer capacity; processing time distribution

Class Codes: C1290F (Systems theory applications in industry); C7160 (Manufacturing and industrial administration)  
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16/5/12 (Item 9 from file: 2)

DIALOG(R)File 2:INSPEC

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4908369 INSPEC Abstract Number: C9505-4240P-008

**Title: On non-preemptive scheduling of recurring tasks using inserted idle times**

Author(s): Howell, R.R.; Venkatrao, M.K.

Author Affiliation: Dept. of Comput. & Inf. Sci., Kansas State Univ., Manhattan, KS, USA

Journal: Information and Computation vol.117, no.1 p.50-62

Publication Date: 15 Feb. 1995 Country of Publication: USA

CODEN: INFCEC ISSN: 0890-5401

U.S. Copyright Clearance Center Code: 0890-5401/95/\$6.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Theoretical (T)

Abstract: We consider the problem of non-preemptively scheduling periodic and sporadic task systems on one processor using inserted idle times. For periodic task systems, we prove that the decision problem of determining whether a periodic task system is schedulable for all start times with respect to the class of algorithms using inserted idle times is NP-hard in the strong sense, even when the deadlines are equal to the periods. We then show that if there exists a polynomial time scheduling algorithm which correctly schedules a periodic task system  $T$  whenever  $T$  is feasible for all start times, then  $P=NP$ . We also prove that with respect to the same class of algorithms, the problem of **determining** whether there exist start **times** for which a periodic task system is feasible is also NP-hard in the strong sense even when the deadlines are equal to the periods. The second part of the paper concentrates on sporadic task systems and inserted idle times. It seems reasonable to suppose that to insert idle times properly, knowledge of future releases of tasks is required. Thus, inserted idle times should not be expected to have much use in scheduling sporadic task systems. We provide a format basis for these intuitions by proving that if a sporadic task system is schedulable by an online algorithm that uses inserted idle times, then it is schedulable by an online algorithm that does not use inserted idle times. We also prove that there cannot exist an optimal **on - line** inserted idle time algorithm for **scheduling** sporadic task systems, even if the deadlines correspond to the minimum separation time between successive releases of the same task. We conclude by considering the amount of look-ahead needed to schedule sporadic tasks correctly. (18 Refs)

Subfile: C

Descriptors: computational complexity; parallel algorithms; scheduling

Identifiers: nonpreemptive scheduling; recurring tasks; inserted idle times; sporadic task systems; periodic task systems; decision problem; NP-hard; polynomial time scheduling algorithm; periodic task system; format basis; online algorithm

Class Codes: C4240P (Parallel programming and algorithm theory); C4240C (Computational complexity)

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16/5/13 (Item 10 from file: 2)

DIALOG(R)File 2:INSPEC

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4730480 INSPEC Abstract Number: C9409-6150J-012

**Title:** The DEDOS on - line scheduler

Author(s): Luit, E.J.

Author Affiliation: Dept. of Math. & Comput. Sci., Eindhoven Univ. of Technol., Netherlands

p.119-24

Editor(s): Boullart, L.; de la Puente, J.A.

Publisher: Pergamon Press, Oxford, UK

Publication Date: 1992 Country of Publication: UK 286 pp.

ISBN: 0 08 041894 5

Conference Title: Proceedings of 18th IFAC Workshop on Real Time Programming (WRTP '92)

Conference Sponsor: IFAC; IFIP

Conference Date: 23-26 June 1992 Conference Location: Bruges, Belgium

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

**Abstract:** The basic mechanisms of the **online scheduler** for the Dependable Distributed Operating System (DEDOS) are presented. DEDOS supports the reliable execution of time-critical applications. An application consists of a time-critical hard real-time (HRT) part and a less time-critical soft real-time (SRT) part. The HRT part is the backbone of the application and consists mainly of periodic tasks. This part of the application is scheduled off-line to guarantee that all deadlines are met. The off-line scheduler takes all resources into account, including the network. On each processor in the distributed system, an **online scheduler** (OLS) enforces this schedule. The off-line scheduler divides the HRT tasks into non-preemptable scheduling blocks and calculates a start time and a worst-case execution time for each block. The OLS starts the execution of these blocks at the prescribed time. Programs can contain alternative statements, so a scheduling block can have several alternative successors. Only one of the alternative successor blocks is executed at run time, so the OLS determines which alternative was taken and the corresponding part of the schedule is enforced. The OLS computes the next block to execute in a time proportional to N+1, where N is the number of data-dependent tasks on a processor. The OLS supports exception handling. Tasks are removed from the schedule after an exception and reinserted into the schedule after a reconfiguration. The OLS detects violations of user-defined deadlines. Timing violations of network accesses are also detected because the network and receiver schedules may not be compromised. (8 Refs)

Subfile: C

Descriptors: exception handling; online operation; operating systems (computers); real-time systems; scheduling; software reliability; synchronisation

Identifiers: DEDOS **online scheduler**; Dependable Distributed Operating System; reliable execution; time-critical applications; hard real-time part; soft real-time part; periodic tasks; deadlines; distributed system; nonpreemptable scheduling blocks; start time; worst-case execution time; alternative statements; alternative successor blocks; exception handling; task removal; task reinsertion; reconfiguration; user-defined deadline violation detection; timing violations; network schedule; receiver schedule

Class Codes: C6150J (Operating systems)

16/5/14 (Item 11 from file: 2)

DIALOG(R)File 2:INSPEC

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4730242 INSPEC Abstract Number: C9409-1290F-050

**Title:** Avoiding scheduling errors by partial simulation of the future

Author(s): Moser, M.; Herrmann, M.; Engell, S.

Search Performed by Sylvia Keys 17-May-04

Author Affiliation: Fraunhofer-Inst. IITB, Karlsruhe, Germany  
p.411-12 vol.1

Publisher: IEEE, New York, NY, USA

Publication Date: 1992 Country of Publication: USA 4 vol. 3822 pp.

ISBN: 0 7803 0872 7

Conference Title: Proceedings of 1992 31st IEEE Conference on Decision and Control

Conference Sponsor: IEEE

Conference Date: 16-18 Dec. 1992 Conference Location: Tucson, AZ, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: Scheduling based on partial simulation is described. The proposed solution is of a predictor-corrector type. The essential idea is not to start with the uncontrolled system with all its flexibility in the sequencing of the operations but with a controlled system. The basic control algorithm is a priority rule. Then, the potential errors are considered. This means one starts on the bottleneck machines and simulates the situation on the stations which the jobs which are presently waiting will encounter. This requires simulating all other stations from which potentially competing jobs may originate. Still, only a small part of the system is considered. This analysis yields the probable earliest possible starting times for the next processing steps and hence the real due dates for the operations waiting in front of the bottleneck station. Scheduling on this station is then done based on these due dates rather than based on the global slack of the job or on the operation due **date determined** in advance. The result of the partial simulation is a dynamical operation due date for each operation in the queue considered. (2 Refs)

Subfile: C

Descriptors: flexible manufacturing systems; predictor-corrector methods; production control; queueing theory; scheduling; simulation

Identifiers: flexible manufacturing system; **on - line scheduling**; critical queue; scheduling errors; partial simulation; predictor-corrector type; controlled system; control algorithm; priority rule; bottleneck machines; real due dates; dynamical operation due date

Class Codes: C1290F (Industry); C1140C (Queueing theory); C1220 (Simulation, modelling and identification)

16/5/15 (Item 12 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

4522526 INSPEC Abstract Number: C9312-1290F-085

Title: **Experimental investigation of an FMS due-date scheduling problem: evaluation of machine and AGV scheduling rules**

Author(s): Sabuncuoglu, I.; Hommertzheim, D.L.

Author Affiliation: Dept. of Ind. Eng., Bilkent Univ., Ankara, Turkey

Journal: International Journal of Flexible Manufacturing Systems  
vol.5, no.4 p.301-23

Publication Date: Sept. 1993 Country of Publication: Netherlands

CODEN: IFMSE5 ISSN: 0920-6299

Language: English Document Type: Journal Paper (JP)

Treatment: Experimental (X)

Abstract: Although extensive research as been conducted to solve design and operational problems of automated manufacturing systems, many of the problems still remain unsolved. The article investigates the scheduling problems of flexible manufacturing systems (FMSs). Specifically, the relative performances of machine and **automated** guided vehicle (AGV) **scheduling** rules are analyzed against various due-date criteria. First, the relevant literature is briefly reviewed, and then the rules are tested under different experimental conditions by using a simulation model of an

Search Performed by Sylvia Keys 17-May-04

FMS. The sensitivity to AGV workload, buffer capacity, and processing- time distribution is also investigated to **assess** the robustness of the scheduling rules. (25 Refs)

Subfile: C

Descriptors: automatic guided vehicles; flexible manufacturing systems; production control; scheduling

Identifiers: FMS due-date scheduling problem; AGV; scheduling rules; automated manufacturing systems; flexible manufacturing systems; due-date criteria; workload; buffer capacity; processing-time distribution; robustness; production control

Class Codes: C1290F (Industry); C7480 (Production engineering)

16/5/16 (Item 13 from file: 2)

DIALOG(R)File 2:INSPEC

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4449947 INSPEC Abstract Number: C9309-5470-005

**Title: Efficient on - line processor scheduling for a class of IRIS (increasing reward with increasing service) real-time tasks**

Author(s): Dey, J.K.; Kurose, J.F.; Towsley, D.; Krishna, C.M.; Girkar, M.

Author Affiliation: Massachusetts Univ., Amherst, MA, USA

Journal: Performance Evaluation Review vol.21, no.1 p.217-28

Publication Date: June 1993 Country of Publication: USA

CODEN: PEREDN ISSN: 0163-5999

U.S. Copyright Clearance Center Code: 0 89791 581 X/93/0005/0217\$1.50

Conference Title: 1993 ACM Sigmetrics Conference on Measurement and Modeling of Computer Systems

Conference Sponsor: ACM

Conference Date: 17-21 May 1993 Conference Location: Santa Clara, CA, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)

Abstract: The authors consider the problem of **on - line scheduling** of real-time tasks which receive a 'reward' that depends on the amount of service received. In the model, tasks have associated deadlines at which they must depart the system. The task computations are such that the longer they are able to execute before their deadline, the greater the value of their computations, i.e. the tasks have the property that they receive increasing reward with increasing service (IRIS). They focus on the problem of scheduling IRIS tasks in a system in which tasks arrive randomly over time, with the goal of maximizing the average reward accrued per task and per unit time. They describe and evaluate a two-level policy for this system. A top-level algorithm executes each **time** a task arrives and **determines** the amount of service to allocate to each task in the absence of future arrivals. A lower-level algorithm, an earliest deadline first (EDF) policy in our case, is responsible for the actual selection of tasks to execute. This two-level policy is evaluated through a combination of analysis and simulation. They observe that it provides nearly optimal performance when the variance in the interarrival times and/or laxities is low that the performance is more sensitive to changes in the arrival process than the deadline distribution. (20 Refs)

Subfile: C

Descriptors: performance evaluation; real-time systems; scheduling

Identifiers: **online scheduling**; IRIS; increasing reward; increasing service; real-time tasks; associated deadlines; two-level policy; earliest deadline first; optimal performance; interarrival times; laxities

Class Codes: C5470 (Performance evaluation and testing); C6150J (

Operating systems)

16/5/17 (Item 14 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

04038080 INSPEC Abstract Number: C9201-7160-023

**Title: On decentralized on - line scheduling of FMS**

Author(s): Engell, S.; Kuhn, T.; Moser, M.

Author Affiliation: Fraunhofer-Inst. for Inf. & Data Process., Karlsruhe, Germany

Conference Title: Proceedings of the 29th IEEE Conference on Decision and Control (Cat. No.90CH2917-3) p.125-7 vol.1

Publisher: IEEE, New York, NY, USA

Publication Date: 1990 Country of Publication: USA 6 vol. 3671 pp.

U.S. Copyright Clearance Center Code: CH2917-3/90/0000-0125\$01.00

Conference Sponsor: IEEE

Conference Date: 5-7 Dec. 1990 Conference Location: Honolulu, HI, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Theoretical (T)

Abstract: The scheduling problem is considered for medium sized (5-10 machines or workplaces) flexible manufacturing systems which are part of a larger production process. The general philosophy is to divide the scheduling problem into a number of local decentralized problems: the optimal sequencing and routing of the jobs within flexible manufacturing systems or small workshops. The subsystems are coordinated by an upper-level scheduler. It assigns the due dates for the completion of operations in the subsystems and **determines** the earliest possible starting **times** from the dependencies among the operations and the externally determined starting conditions. Based on the mathematical description of decision-free manufacturing systems in terms of minimax algebra, the coordination of the subsystems can be achieved in a very simple manner. In this study the behavior of local **on - line scheduling** algorithms is investigated. The local control laws are based on priority rules augmented by look-ahead strategies. (7 Refs)

Subfile: C

Descriptors: algebra; decentralised control; flexible manufacturing systems; production control

Identifiers: optimal routing; decentralized **on - line scheduling** ; FMS ; optimal sequencing; decision-free manufacturing systems; minimax algebra; local control laws; priority rules; look-ahead strategies

Class Codes: C7160 (Manufacturing and industry); C1290F (Industry); C1110 (Algebra); C1340B (Multivariable systems); C3355 (Manufacturing processes); C7480 (Production engineering)

16/5/18 (Item 15 from file: 2)

DIALOG(R)File 2:INSPEC

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03908490 INSPEC Abstract Number: C91041096

**Title: A dining philosophers algorithm with polynomial response time**

Author(s): Awerbuch, B.; Saks, M.

Author Affiliation: Dept. of Math., MIT, Cambridge, MA, USA

Conference Title: Proceedings. 31st Annual Symposium on Foundations of Computer Science (Cat. No.90CH2925-6) p.65-74 vol.1

Publisher: IEEE Comput. Soc. Press, Los Alamitos, CA, USA

Publication Date: 1990 Country of Publication: USA 2 vol. xiv+881 pp.

ISBN: 0 8186 2082 X

U.S. Copyright Clearance Center Code: CH2925-6/90/0000-0065\$01.00

Search Performed by Sylvia Keys 17-May-04

Conference Sponsor: IEEE  
Conference Date: 22-24 Oct. 1990      Conference Location: St. Louis, MO,  
USA

Language: English      Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: Presents an efficient distributed **online** algorithm for **scheduling** jobs that are created dynamically, subject to resource constraints that require that certain pairs of jobs not run concurrently. The focus is on the response time of the system to each job, i.e. the length of the time interval that starts when the job is created or assigned to a processor and ends at the instant the execution of the job begins. The goal is to provide guarantees on the response time to each job  $j$  in terms of the density of arrivals of jobs that conflict with  $j$ . The model is completely asynchronous and includes various resource allocation problems that have been studied extensively, including the dining philosophers problem and its generalizations to arbitrary networks. In these versions of the problem, the resource requirements of each new job  $j$  determines an upper bound  $\delta_j$  on the number of jobs that can exist concurrently in the system and conflict with  $j$ . Given such upper bounds, no scheduling algorithm can guarantee a response time better than  $\delta_j$  **times** the maximum execution or message **transmission time**. A simple algorithm that guarantees response time that is essentially polynomial in  $\delta_j$  is presented. It is based on the notion of a distribution queue and has a compact implementation. (17 Refs)

Subfile: C

Descriptors: computational complexity; distributed processing; queueing theory; resource allocation

Identifiers: job scheduling; dynamic job creation; job arrival density; conflicting jobs; asynchronous model; concurrent jobs; maximum execution time; dining philosophers algorithm; polynomial response time; distributed online algorithm; resource constraints; resource allocation; arbitrary networks; resource requirements; upper bound; message **transmission time**; distribution queue

Class Codes: C4240 (Programming and algorithm theory); C6150J (Operating systems); C1140C (Queueing theory); C1160 (Combinatorial mathematics)

**16/5/19      (Item 16 from file: 2)**

DIALOG(R) File 2:INSPEC

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03754055      INSPEC Abstract Number: C90071972

**Title: Expert simulation for on - line scheduling**

Author(s): Jain, S.; Barber, K.; Osterfeld, D.

Author Affiliation: Gen. Motors Tech. Center, Warren, MI, USA

Conference Title: 1989 Winter Simulation Conference Proceedings (Cat. No.89CH2778-9)      p.930-5

Editor(s): MacNair, A.; Musselman, K.J.; Heidelberger, P.

Publisher: SCS, San Diego, CA, USA

Publication Date: 1989      Country of Publication: USA      xx+1139 pp.

ISBN: 0 911801 58 8

Conference Sponsor: IEEE; American Stat. Assoc.; ACM; Inst. Ind. Eng.; NIST; ORSA; Inst. Manage Sci.; SCS

Conference Date: 4-6 Dec. 1989      Conference Location: Washington, DC, USA

Language: English      Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: A description is given of the Expert System Scheduler, which uses heuristics developed by an experienced factory scheduler. It uses simulation concepts and their heuristics to generate schedules. Forward and backward simulation are used at different stages of the schedule generation

Search Performed by Sylvia Keys 17-May-04

process. The system is used to control parts flow on the factory floor at one automated facility. This highly automated facility is a testbed for implementation of CIM concepts. The scheduler runs on a Texas Instruments (TI) Explorer II computer using software developed inhouse utilizing IntelliCorp's Knowledge Engineering Environment (KEE) shell and the Lisp language. The scheduling computer is networked to the factory control computer, which actually controls the plant floor. The TI Explorer II acquires current plant floor information from the factory control system, generates a new schedule, and **sends** it back within a short **time**. The configuration allows fast response to changes in requirements and plant floor conditions. (6 Refs)

Subfile: C

Descriptors: expert systems; manufacturing computer control;  
manufacturing data processing

Identifiers: expert simulation; **online scheduling** ; forward simulation  
; Expert System Scheduler; heuristics; backward simulation; parts flow; CIM  
; Knowledge Engineering Environment; Lisp language; TI Explorer II

Class Codes: C7160 (Manufacturing and industry); C6170 (Expert systems)  
; C7420 (Control engineering)

**16/5/20 (Item 17 from file: 2)**

DIALOG(R)File 2:INSPEC

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03668477 INSPEC Abstract Number: C90045312

**Title: Making IT Happen. Proceedings of BPICS Annual Conference. British Production and Inventory Control Society**

Publisher: British Production & Inventory Control Soc, Coventry, UK

Publication Date: 1989 Country of Publication: UK 382 pp.

Conference Date: 4-6 Dec. 1989 Conference Location: Birmingham, UK

Language: English Document Type: Conference Proceedings (CP)

Abstract: The following topics were dealt with: production and inventory control, planning and **scheduling** ; Manufacturing Resources Planning; **electronics** assembly; performance **assessment** ; and just-in- **time** production.

Subfile: C

Descriptors: assembling; manufacturing data processing; production control; scheduling; stock control

Identifiers: production control; inventory control; planning; scheduling; Manufacturing Resources Planning; electronics assembly; performance assessment; just-in-time production

Class Codes: C3350 (Industrial production systems); C3355 (Manufacturing processes); C7160 (Manufacturing and industry)

**16/5/21 (Item 18 from file: 2)**

DIALOG(R)File 2:INSPEC

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02961569 INSPEC Abstract Number: C87051864

**Title: Online scheduling of a robotic manufacturing cell with stochastic sequence-dependent processing rates**

Author(s): Seidmann, A.

Author Affiliation: Graduate Sch. of Manage., Rochester Univ., NY, USA

Journal: International Journal of Production Research . vol.25, no.6  
p.907-24

Publication Date: June 1987 Country of Publication: UK

CODEN: IJPRB8 ISSN: 0020-7543

Language: English Document Type: Journal Paper (JP)



Treatment: Practical (P)

Abstract: The problem of online production control for a robotic manufacturing cell producing parts of different types is analysed. The approach described expands the results obtained by Yao and Shanthikumar (1986) so as to provide for sequence-dependent ( **deterministic** or exponential) processing **times** at the cell. In addition, a novel production control strategy permitting temporary suspension of the cell's activities at certain decision epochs is formulated. Several numerical examples are given to illustrate the productive potential of this formulation. They seem to indicate the superiority of the new strategy over earlier optimal control strategies in which the cell had to be active as long as it was unblocked. (28 Refs)

Subfile: C

Descriptors: industrial robots; manufacturing computer control; optimal control; production control; stochastic systems

Identifiers: **deterministic** processing **times** ; exponential processing time; scheduling; robotic manufacturing cell; stochastic sequence-dependent processing rates; online production control; optimal control strategies

Class Codes: C1290F (Industry); C1330 (Optimal control); C1340G (Time-varying systems); C3355 (Manufacturing processes); C7420 (Control engineering)

16/5/22 (Item 19 from file: 2)

DIALOG(R) File 2:INSPEC

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02807140 INSPEC Abstract Number: C87012538

**Title: Automated system for scheduling pipeline time for small batch production using a Symphony spreadsheet**

Author(s): Bankes, W.F.

Author Affiliation: Monsanto Res. Corp., Miamisburg, OH, USA

Journal: Computers & Industrial Engineering vol.11, no.1-4 p.303-7

Publication Date: 1986 Country of Publication: UK

CODEN: CINDDL ISSN: 0360-8352

U.S. Copyright Clearance Center Code: 0360-8352/86/\$3.00

Conference Title: Proceedings of the 8th Annual Conference on Computers and Industrial Engineering

Conference Date: 19-21 March 1986 Conference Location: Orlando, FL, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)

Abstract: A scheduling pipeline program can be easily developed and customized using Symphony spreadsheet software. Monsanto Research Corporation produces small electro-mechanical component subassemblies in large lot sizes which are subdivided into transfer quantities. Since production takes place in several buildings, the transfer quantities create wait time for parts not being worked. Batch production schedules are constructed and adjusted using the pipeline program. This application uses work centers and/or balanced workstation assignments to **determine** schedule **dates** for a given transfer quantity. Production routing information is summarized for each station assignment, and these are considered as schedule points. The program incorporates many database management, input forms, and graphic features available in Symphony. (0 Refs)

Subfile: C

Descriptors: batch processing (industrial); manufacturing data processing ; microcomputer applications; production control; spreadsheet programs

Identifiers: small batch production; Symphony spreadsheet; scheduling pipeline program; Batch production schedules; work centers; balanced

workstation assignments; database management

Class Codes: C1290F (Industry); C7160 (Manufacturing and industry)

**16/5/23 (Item 20 from file: 2)**

DIALOG(R) File 2:INSPEC

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02015006 INSPEC Abstract Number: C83014430

**Title: Someone's life is at stake (hospital computerisation)**

Author(s): Duke, D.

Journal: Word Processing & Information Systems vol.9, no.11 p.36-8

Publication Date: Nov. 1982 Country of Publication: USA

CODEN: WPISD4 ISSN: 0279-7992

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Automatic procedures immediately link doctors with vital medical information. The Datapoint ARC in Stamford Hospital, Stamford, Connecticut is described. The moment tests are completed on a patient, the results are printed out on a computer terminal at an appropriate nursing station. The terminal begins beeping until someone removes the report and **acknowledges** its **transmission**. This is the result of a three-year computerisation effect undertaken by the hospital, an effort that has integrated ADT (admitting, discharge and transfer), laboratory management, pharmacy management, and nurse staffing and **scheduling** functions into one **computerised** system. The system is described. (0 Refs)

Subfile: C

Descriptors: medical administrative data processing; medical computing

Identifiers: hospital computerisation; ADT system; admitting discharge and transistor; Datapoint ARC; nursing station; laboratory management; pharmacy management; nurse staffing; scheduling

Class Codes: C7140 (Medical administration); C7330 (Biology and medicine)

**16/5/24 (Item 21 from file: 2)**

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

01385679 INSPEC Abstract Number: C79022974

**Title: On - line scheduling for the transporting of raw materials in the yards of an iron works**

Author(s): Tokuyama, H.; Sakurai, M.; Watanabe, H.; Ienaga, Y.

Author Affiliation: Central Res. Labs., Sumitomo Metal Industries Ltd., Amagasaki, Japan

Conference Title: Operational Research '78 p.336-52

Editor(s): Haley, K.B.

Publisher: North-Holland, Amsterdam, Netherlands

Publication Date: 1979 Country of Publication: Netherlands xxvi+1114 pp.

ISBN: 0 444 85230 1

Conference Date: 19-23 June 1978 Conference Location: Toronto, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: For raw material yards of an ironworks, an algorithm is described which prepares the transport schedule of various raw materials in a conveyor network. As multicommodity flows with condition of timing, the problem is formulated in two-stage determination: (1) determination of order and routes of transports, and (2) **determination** of start **time** and duration of each transport. In the algorithm, the former is solved by

heuristic logic and the latter by linear programming. It takes only few minutes by on-line process computer. (5 Refs)

Subfile: C

Descriptors: conveyors; heuristic programming; linear programming; metallurgical industries; online operation; scheduling

Identifiers: scheduling; transporting; raw materials; ironworks; algorithm; conveyor network; heuristic logic; linear programming; online process computer

Class Codes: C1180 (Optimisation techniques); C1290F (Industry)

**16/5/25 (Item 22 from file: 2)**

DIALOG(R)File 2:INSPEC

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01016756 INSPEC Abstract Number: C77005567

**Title: A discrete deterministic pipeline flow simulator with online scheduler interface to solve dynamic batch scheduling problems**

Author(s): DeFelice, C.A.

Author Affiliation: Cities Service Co., Tulsa, OK, USA

Conference Title: 1975 Winter Computer Simulation Conference p.689-93

Publisher: Soc. Computer Simulations, La Jolla, CA, USA

Publication Date: 1976 Country of Publication: USA xii+794 pp.

Conference Sponsor: Soc. Computer Simulation

Conference Date: 18-19 Dec. 1975 Conference Location: Sacramento, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A)

Abstract: In large pipeline systems which operate at high flow rates, continuous hydraulic models are required to provide the precision needed in **determining** expected valve switching **times**, surge activity, and line pressures. In smaller pipelines where the flow is considerably slower, the operating characteristics are relatively stable with system changes occurring more slowly, and the only real need for timing information concerning product movements can be met with a less sophisticated discrete approximated simulation model. Such a model is a component in a scheduling system designed for Badger Pipeline. (0 Refs)

Subfile: C

Descriptors: digital simulation; dynamic programming; flow control; oil refining; online operation; scheduling

Identifiers: pipeline flow simulator; **online scheduler** interface; dynamic batch scheduling; operating characteristics; discrete approximated simulation model; oil pipeline

Class Codes: C1290B (Natural resources and ecology); C3120T (Level, flow and volume); C3310E (Mining, oil and natural gas extraction and distribution); C3350G (Chemical and oil refining industries)

**16/5/26 (Item 1 from file: 35)**

DIALOG(R)File 35:Dissertation Abs Online

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01815465 ORDER NO: AADAA-IMQ54312

**Computerised scheduling and control of residential housing projects**

Author: Ramanathan, Ramaneetharan

Degree: M.A.Sc.

Year: 2000

Corporate Source/Institution: Concordia University (Canada) (0228)

Advisers: O. Moselhi; K. El-Rayes

Source: VOLUME 39/03 of MASTERS ABSTRACTS.

PAGE 892. 127 PAGES

Search Performed by Sylvia Keys 17-May-04

Descriptors: ENGINEERING, CIVIL ; OPERATIONS RESEARCH  
Descriptor Codes: 0543; 0796  
ISBN: 0-612-54312-9

This research study presents a practical object-oriented model for scheduling and control of residential housing projects. The model is designed using an Object-Oriented modeling approach and incorporates 18 classes that are designed to facilitate the scheduling and control of residential housing projects. The model also includes two newly developed algorithms for scheduling the construction work of subcontractors in repetitive housing activities and for tracking and control of housing construction. The model considers a number of practical factors commonly encountered in scheduling and control process of these type of projects.

The scheduling algorithm complies with three major constraints namely, precedence relationships, availability period and crew work continuity and is applied in order to **determine** the start and finish **date** of the subcontractor in each housing unit. The tracking and control algorithm is designed to evaluate the cost and work performance of an on-going project at three levels: (1) entire project, (2) housing unit, and (3) subcontractor. The application of this algorithm facilitates the early detection of construction problems, if any, allowing timely corrective actions to be considered.

The developed model is implemented as a prototype software system named 'Residential Planner'. In addition to considering various practical aspects, Residential Planner can generate a number of specialized reports to address the diverse needs of the residential development firms. Residential Planner is an effective tool for scheduling and control of housing projects, and its application can lead to savings in project time and cost.

16/5/27 (Item 2 from file: 35)

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01641461 ORDER NO: AAD98-31695

**FOVEATION TECHNIQUES AND SCHEDULING ISSUES IN THINWIRE VISUALIZATION  
(PROGRESSIVE TRANSMISSION)**

Author: CHANG, EE-CHIEN

Degree: PH.D.

Year: 1998

Corporate Source/Institution: NEW YORK UNIVERSITY (0146)

Adviser: CHEE YAP

Source: VOLUME 59/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 1731. 155 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

We are interested in the visualization of large images across a network. Upon **request**, the server **sends** an image across the network to the client, who in turn, presents this image to the viewer. A key observation is that, at any moment, the viewer is mainly interested in a region around his gaze point in the image. To exploit this, we let the viewer interactively indicates this point and the selected region will have higher priority in the transmission process. As a result, the displayed image is a "space-variant" image.

A fundamental difference between this scheme and the usual progressive transmission scheme is that we place more emphasis on the visualization process. This shift in emphasis opens up new perspectives on the problem. In this thesis, we focus on this difference.

In chapter two, we formalize the operation of "foveating an image",

Search Performed by Sylvia Keys 17-May-04

study how to distribute the resolution over an image, and how to progressively refine such a space-variant image. Motivated by properties of human vision, we propose two methods for the construction of space-variant images. In chapter three, we formulate and study an abstract **on - line scheduling** problem which is motivated by interactions between the client and the server. In the fourth and last chapter, we describe details and issues in an implementation.

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01639938 ORDER NO: AAD98-28622

**MAXIMIZING THROUGHPUT OF RELIABLE BULK NETWORK TRANSMISSIONS (NETWORK BANDWIDTH)**

Author: BYERS, JOHN W.

Degree: PH.D.

Year: 1997

Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, BERKELEY (0028)

Chair: CHRISTOS PAPADIMITRIOU

Source: VOLUME 59/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1731. 109 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

We study combinatorial optimization and **on - line scheduling** problems which arise in the context of supporting applications which transmit bulk data over high-speed networks. One of our primary objectives in this thesis work is to formulate appropriate theoretical models in which to develop and analyze efficient algorithms for these problems--models which reflect both the experience of network architects, the design of network protocols, and contributions of theoretical research.

We first consider the optimization problem of maximizing the utilization of a shared resource, network bandwidth, across a set of point-to-point connections. A feasible solution to this allocation problem is an assignment of transmission rates to the connections which does not violate the capacity constraints of the network links. The connections and routers which are responsible for establishing this allocation must do so with incomplete information and limited communication capabilities. We develop a theoretical model which addresses these considerations and study the tradeoff between the quality of the solution we can obtain and the distributed running time. Our main theoretical result is a distributed algorithm for this problem which generates a feasible  $(1+\epsilon)$ -approximation to the optimal allocation in a polylogarithmic number of distributed rounds. A sequential implementation of our distributed algorithm gives a simple, efficient approximation algorithm for general positive linear programming. Subsequent experience with an implementation of the algorithm indicates that it is well suited to future deployment in high-speed networks.

The next problem we consider is the following **on - line scheduling** problem, which the sender of a point-to-point bulk transmission must address: Given an on-line sequence of **transmission times**, **determine** which data item to **transmit** at each **transmission time**, so as to maximize effective throughput to the receiver at all points in time. For this application, we measure effective throughput as the length of the intact prefix of the message at the receiver. This problem is made difficult in practice by factors beyond the sender's control, such as packet loss and wide variance in packet round-trip times. Using the method of competitive analysis, we compare the performance of our algorithm to

that of an omniscient algorithm. We prove that while all deterministic policies perform poorly in this model, a simple randomized policy delivers near-optimal performance at any given point in time with high probability. Moreover, our theoretical result ensures that typical performance does not degrade significantly--a claim which our empirical studies bear out.

Using the models and tools developed for these problems, we then consider analogous problems which arise for multicast bulk transmissions, transmissions targeted to multiple destinations. We show how to tune our bandwidth allocation policy to still deliver a  $(1+\epsilon)$  approximation to the optimal allocation in a polylogarithmic number of distributed rounds. For the **scheduling** problem, we prove that no **on-line scheduling** policy can deliver high performance which scales with the number of receivers without using encoding. We then show that by using forward error correction coding techniques, a simple multicast policy delivers effective throughput within a constant factor of optimal independent of the number of receivers.

16/5/29 (Item 4 from file: 35)

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01524800 ORDER NO: AAD97-02926

**DESIGN AND ANALYSIS OF ONLINE ALGORITHMS FOR MOBILE SERVER APPLICATIONS**

Author: KOSORESOW, ANDREW PETER

Degree: PH.D.

Year: 1996

Corporate Source/Institution: STANFORD UNIVERSITY (0212)

Adviser: NILS J. NILSSON

Source: VOLUME 57/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 5156. 115 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

Numerous real-world problems exhibit behaviors that can be modeled as a group of servers that are required to visit a series of locations under some set of constraints. In many cases, these problems have the property of being online, that is the system has to act on a particular request or set of **requests** before it **receives** subsequent **requests**. Such applications include scheduling I/O requests for a disk drive, scheduling taxicabs and airport shuttle services, parcel post pickup and delivery, routing freight, and dispatching emergency vehicles. With the advent of intelligent, autonomous distributed systems, mobile robots that use **online scheduling** algorithms can begin to be used for some of the above applications.

This thesis examines a series of models that correspond to such applications. We consider models that are extensions to the basic online k-Server Problem, where a set of servers has to respond to a series of calls where each call is a location that has to be visited. These extensions include adding a second location to each call (the Taxicab Problem), having the calls come from a known probabilistic distribution, limiting the servers' available memory, and allowing servers to reject calls. We develop strategies and algorithms to handle these models. For such problems, it is natural to evaluate the efficiency of the scheduling algorithm either with respect to some absolute metric or relative to some optimal solution, either online or offline. In the offline case, not only are we evaluating the performance of the algorithm, but we also provide a measure of the value of advance knowledge. We consider several measures of performance and present results for these models, giving upper and lower bounds on performance.

16/5/30 (Item 5 from file: 35)  
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01311384 ORDER NO: AAD93-26539

**THEORY AND APPLICATIONS OF ONLINE ALGORITHMS ( SCHEDULING , PAGING)**

Author: PHILLIPS, STEVEN JOHN  
Degree: PH.D.  
Year: 1993  
Corporate Source/Institution: STANFORD UNIVERSITY (0212)  
Adviser: RAJEEV MOTWANI  
Source: VOLUME 54/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 2601. 107 PAGES  
Descriptors: COMPUTER SCIENCE  
Descriptor Codes: 0984

An online algorithm receives its input in a sequence of requests, and must service each request as it arrives, without knowing the future of the request sequence. In this thesis we both develop methods for analyzing online algorithms, and apply online analysis to study specific problems.

The most widely used method of analyzing online algorithms is competitive analysis, where the performance of the online algorithm is compared to the performance of an offline algorithm that sees the sequence in advance. We first apply competitive analysis to study algorithms for single and multi-processor scheduling in a **time**-sharing operating system. We **determine** the best possible competitive ratio for randomized and deterministic schedulers, giving theoretical justification for some schedulers used in practice.

We then use competitive analysis to study an online load balancing problem that arises in the analysis of algorithms for combinatorial optimization. This work on load balancing improves the best known running time for computing the maximum flow in a network.

A basic assumption of competitive analysis is that the online algorithm knows absolutely nothing about the future. However, in many applications this assumption is invalid. We study models for partial information about the future, using the example of a paging algorithm managing a two level store, where in practice the sequence of page references is constrained by locality of reference. We study the paging problem both in a competitive model and a new probabilistic model of locality of reference. We focus on the question: what is the best paging algorithm if the locality of reference is known? how can partial information about the future be optimally used?

16/5/31 (Item 6 from file: 35)  
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01295768 ORDER NO: AAD93-16731

**REAL-TIME SYSTEMS: WELL-TIMED SCHEDULING AND SCHEDULING WITH PRECEDENCE CONSTRAINTS**

Author: ZLOKAPA, GORAN  
Degree: PH.D.  
Year: 1993  
Corporate Source/Institution: UNIVERSITY OF MASSACHUSETTS (0118)  
Director: JOHN A. STANKOVIC  
Source: VOLUME 54/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 951. 239 PAGES  
Descriptors: COMPUTER SCIENCE  
Descriptor Codes: 0984

This dissertation attempts to bridge the gap between recent theoretical results from Scheduling Theory, Queueing Theory, and Operations Research and actual requirements of current and future real-time systems.

The first part develops a novel approach for the timely scheduling of dynamically arriving tasks, and it is, primarily, designed for **on - line schedulers** of non- **deterministic** complex real- **time** systems that perform in temporary or permanent overloads. In these systems, to predict whether a task will complete by its deadline, an on-line schedulability analysis has to be carried out. The quality of the analysis, as well as its computational overheads, depends on when the analysis is performed and how many tasks are involved. Our approach to schedulability analysis, called Well-Timed Scheduling, is based on analytically derived control parameters. This approach presents a framework for **on - line** real-time **schedulers** , and it lends itself to use with different scheduling policies. Well-Timed Scheduling provides a methodical approach to quantifiable guarantees of timing constraints with potentially low scheduling overhead and high system performance. Using this approach, the ready-to-execute tasks are scheduled at an "opportune" time, rather than at arrival time or at dispatch time as in the traditional approaches. The analytical derivation of the "opportune" time is based on recent theoretical results, and it is validated through simulation. Aside from run-time benefits (e.g., low scheduling overheads), Well-Timed Scheduling is useful as a design tool. It can, for example, be used to determine the number of processors needed to achieve the required level of system's guaranteed performance for a given M/G/c real-time system.

In the second part of the dissertation, we develop off-line preprocessing algorithms that enable effective and efficient **on - line scheduling** of task groups with different contributing values, timing constraints, resource constraints, and arbitrary precedence constraints. These algorithms derive new value densities that reflect how valuable the individual tasks and their successors are. By utilizing these reflective value densities, **on - line schedulers** are not required to examine the successors of ready-to-execute tasks at run-time to select the best task to schedule next. This approach greatly reduces the computational complexity of **on - line schedulers** , and it extends the applicability range of existing **on - line scheduling** algorithms for independent tasks to scheduling of task groups with arbitrary precedence constraints. Due to the separation of value density preprocessing and deadline preprocessing, the developed algorithms are equally applicable to real-time and non real-time systems.

The overall goal of this dissertation is the development of efficient and effective **scheduling** methods for **on - line scheduling** of complex real- **time** systems in very demanding non- **deterministic** environments, where the best-effort algorithms are used to maximize the total accrued system value.

16/5/32 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2149243 H.W. WILSON RECORD NUMBER: BAST97054880

Assessment time down 80%

Litsikas, Mary;

Quality v. 36 (May 1997) p. 52+

DOCUMENT TYPE: Feature Article ISSN: 0360-9936 LANGUAGE: English

RECORD STATUS: Corrected or revised record

ABSTRACT: An **automated** system for tracking and **scheduling** principle end products was implemented at maintenance centers run by the Marine Corps

Search Performed by Sylvia Keys 17-May-04



as a result of tighter budgets at the Department of Defense. Surveys were carried out at 2 maintenance depots, one in Albany and one in Barstow, to determine the hardware and software requirements for a Programmed Depot Maintenance Scheduling System. The Marine Corps wanted one system that could share information and give personnel at each site identical reference points. Prior to this new system, each group had its own procedures and used different spreadsheets and highly personalized methods. The benefits of the new system are 80 percent reduction in **assessment time** and increased standardization in procedures. In addition, the bases can track, analyze, and enhance their cycle times.

DESCRIPTORS: Scheduling (Management); Business logistics; United States--Dept. of Defense--Appropriations and expenditures;

**16/5/33 (Item 2 from file: 99)**

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
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1289655 H.W. WILSON RECORD NUMBER: BAST96011862

**Optimal sequencing of double-gripper gantry robot moves in tightly-coupled serial production systems**

Su, Qi; Chen, F. Frank

IEEE Transactions on Robotics and Automation v. 12 (Feb. '96) p. 22-30

DOCUMENT TYPE: Feature Article ISSN: 1042-296X LANGUAGE: English

RECORD STATUS: New record

ABSTRACT: This study addresses the problem of scheduling double-gripper gantry robots and provides a structure for analyzing **scheduling** problems in a tightly-coupled **automated** serial production line with **deterministic processing time**. Literature to **date** indicates that there has been no documented effort dealing with the scheduling problem of double-gripper gantry robots. This paper presents an optimal schedule by analyzing the cycle time formula for two-station ( $m = 2$ ) tightly-coupled production lines served by a double-gripper gantry robot. The result is then generalized to the problem of scheduling a gantry robot in a production line with  $m$  (where  $m > 2$ ) workstations, and finally an optimal schedule for the  $m$ -station case is developed. The effectiveness of using double-gripper gantry robots is discussed and some analytical insights into the employment of double-gripper gantry robot are provided for manufacturing system designers. Copyright 1996, IEEE.

DESCRIPTORS: Gantry robots--Control; Scheduling (Management); Sequencing problems;

**16/5/34 (Item 1 from file: 233)**

DIALOG(R)File 233:Internet & Personal Comp. Abs.

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00602489 00IP05-003

**Insta-intranets: Intranets.com**

Jones, Rebecca

Intranet Professional , May 1, 2000 , v3 n3 p8, 1 Page(s)

ISSN: 1098-7142

Company Name: Intranets.com

Languages: English

Document Type: Articles, News & Columns

Geographic Location: United States

Focuses on Intranets.com, a service that offers a free intranet portal.

Says that the only charge is for telephone support, and e-mail support is free, with answers arriving within hours of sending the **request**. Relates that the revenue model is banner and targeted advertising, but the ads are not obtrusive at all. States that an intranet is easy to set up by the administrator, is customizable with a company or group identity, and provides group calendaring, document management, and group announcements. Adds that the beauty of this product is not only the price, but also the ease of working on documents, as a document can be saved in HTML and posted to the intranet for group editing. Concludes that while it may not have the sophistication of intranets within many organizations, Intranets.com is an option for small to mid-size companies. (KMD)

Descriptors: Intranets; Portals; Small Business; **Online Services;**  
**Calendar** ; Document Management System; Advertising  
Identifiers: Intranets.com

**16/5/35 (Item 2 from file: 233)**

DIALOG(R) File 233:Internet & Personal Comp. Abs.

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00426850 96PK06-004

**Utilities flip the switch on Web-based commerce -- Electricity consumers can shop around**

Kerstetter, Jim

PC WEEK , June 3, 1996 , v13 n22 p1, 104, 2 Page(s)

ISSN: 0740-1604

Company Name: Joint Transmission Services Information Network

Product Name: Open Access Same Time Information System

Languages: English

Document Type: Product Announcement

Hardware/Software Compatibility: IBM PC Compatible

Geographic Location: United States

Reports that some large electricity consumers will soon be able to access a series of secure Web sites as part of the process of ordering electric service from geographically remote power companies through the Joint Transmission Services Information Network. Says the network is a consortium of over 270 electric companies that is initially developing six Open Access Same Time Information System (OASIS) sites accessible through standard browsers and protected by passwords. Adds that OASIS sites will enable a customer to locate power lines with excess capacity to transmit from the supplier to the customer, and then to request for additional capacity through a broker. Also says OASIS sites will eventually allow automated approvals and be connected to business applications such as **automated billing and scheduling**. (dpm)

Descriptors: Power Supply; Online Systems; Web Sites; Business

Identifiers: Open Access Same **Time** Information System; Joint  
**Transmission** Services Information Network

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08011693 Supplier Number: 65912846 (USE FORMAT 7 FOR FULLTEXT)

**Access Management.**

Health Data Management, v8, n5, pS-18

May, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 611

... registration as well as eligibility verification; medical necessity, referral and authorization verification; financial verification; and **automated appointment** reminders.

**Scheduling .com** sets the care and reimbursement processes in motion well before the patient visit. When a **request** for a procedure is **received**, authorized users access the correct patient's records to verify eligibility and medical necessity, and to initiate referrals and authorizations. This lets **providers** address payment accountability issues before services are booked. Once verified and credit checked, the information...

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07824367 Supplier Number: 65320503 (USE FORMAT 7 FOR FULLTEXT)

**scheduling.com Selects NEON as Strategic Partner for Integration Initiatives; Alliance to Streamline Data Flow, Reduce Application Integration Costs.**

PR Newswire, pNA

Sept 20, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 778

... providers, payors and consumers. Using this model, healthcare providers have the flexibility to schedule patient **appointments**, **determine** medical necessity, check insurance eligibility, and verify referrals and authorizations **online**. **scheduling .com** is using NEON technology to integrate these systems to ensure seamless connectivity and data...

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07588865 Supplier Number: 63555663 (USE FORMAT 7 FOR FULLTEXT)

**BizLand, Inc. Selects TimeTrade.com to Bring Web-Based Appointment Scheduling to Service Merchants.**

PR Newswire, p2185

July 19, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 570

... to their website and customers to their business."